

UNCONVENTIONAL TERRORIST WEAPONS

AMERICAN

SURVIVAL.

THE MAGAZINE FOR SAFER LIVING

GUIDE

JULY 1987 VOL. 9 NO. 7
\$2.50 In Canada \$3.00 U.K. 2.25



**MITCHELL ARMS' NEW
YUGOSLAV
AK-47S**

**HEAT
DISORDERS:
Emergency
Treatment**

**WATER
SURVIVAL
BASICS**

**DON'T GET LOST:
Using A Map, Compass, Protractor**



BMF

Basic Multi Function

The Hottest Knife of 1986

Available from Cutlery Shoppe
with or without sawteeth

- 1/4" thick blade
- Full tang construction
- 13 1/4" overall, 8" blade
- Dupont Hypalon handle
- Cordura jump sheath
- Diamond sharpening stone
- Jeweled compass

#5910 - With Sawteeth
Retail \$160.00 - Our Price **\$119.95**

#5920 - Without Sawteeth
Retail \$150.00 - Our Price **\$119.95**



VICTORINOX

SwissChamp®

NEW



The **Ultimate Collection** of the most needed implements ever assembled on a folding pocketknife. Starting with all the implements on the Champion, plus a wood chisel, ballpoint pen, pliers, wire cutter and a mini screwdriver in the corkscrew — 29 tools in all! Choice of red or black.

A 'Must Have' Item!

Retail \$69.95 Our Price **\$54.95**

Belt Sheath Survival Kit

SOS Kit, black leather sheath includes SwissChamp® knife, compass, ruler, needles & thread, sharpening stone, mechanical pencil & survival aids.

Retail \$99.95 Our Price **\$79.95**

GERBER



BMF

LMF

Built
Gerber tough
for pounding,
chopping and
heavy use.

Made in
the U.S.A.

8"
BLADE

6"
BLADE



M9 Bayonet

Designed by Phobis III and manufactured by Buck Knives, this is the new Official U. S. Army Bayonet. The Army made a good choice in the M9—it's a sturdy bayonet and also a great field knife. Forged steel 7 1/8" blade, 12 1/4" overall, with a sawtooth back edge, on-sheath wire-cutter and a built-in bottle opener. Includes a high quality DuPont plastic sheath with new Bianchi belt fastener and sharpening stone.

Cutlery Shoppe is now taking orders for an estimated July / August 1987 delivery. We'll do our best to supply all orders A.S.A.P. (first in—first out), but we're not kidding when we tell you to ORDER NOW if you want delivery anytime soon.

Retail \$159.95 . . Our Price **\$119.95**

COLD STEEL



We've got the full Cold Steel line.
Call for Best Prices!

LMF

Light Multi Function

Here it is...Gerber's follow-up to the smashing success of their BMF model.

The LMF is 10 1/2" overall, with 6" drop-point blade, and .250" blade thickness. Like the BMF, the LMF features a high comfort non-slip Hypalon® grip and heavy duty full-tang construction to take the punishment of rugged use. The stainless steel blade is hardened to 54-56 Rockwell.

The Cordura® LMF sheath utilizes the new Bianchi military spec belt fastener.

#5940 - With Sawteeth
Retail \$125.00 - Our Price **\$99.95**

#5942 - Without Sawteeth
Retail \$115.00 - Our Price **\$91.95**

Leatherman® Pocket Tool

FULL SIZE
FULL STRENGTH

Full size with
belt sheath



Retail \$45.00 Our Price **\$29.95**



Buck Titanium™

Handle and built-in belt clip are entirely constructed of ultra-light Titanium that can be field stripped and reassembled easily with the attached hex wrench. 3 3/4" blade, 5" closed length.

Retail \$109.95 Our Price **\$79.95**



Smith Multi-Hone

High quality oil-bath stone kit with 8" coarse, medium, fine and extra-fine stones.

Retail \$80.00 Our Price **\$54.95**

Cutlery Shoppe

FOR ORDERS ONLY: VISA, MASTERCARD & C.O.D. — FOR INFORMATION PHONE 1-208-376-9490

1-800-231-1272

Dept. AG, Suite 3, 7512 Lemhi, Boise, ID 83709 ADD SHIPPING: \$3 to 48-states; \$7 to APO's, FPO's, Alaska, Hawaii & Canada; \$6 C.O.D. charge; checks allow 21 days to clear. Send \$1 (or make a purchase) to receive our NEW 1987 KNIFE CATALOG and get on our SPECIAL SALE FLYER mailing list.

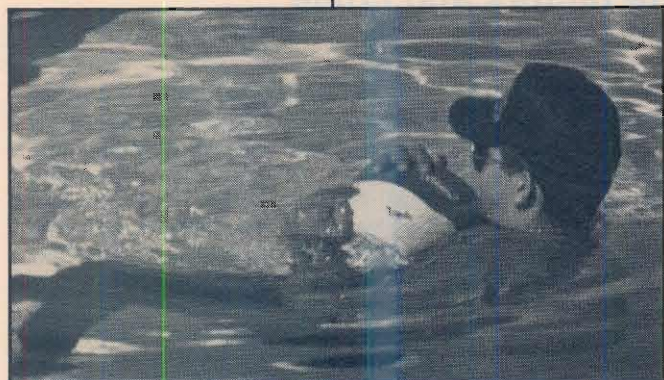
AMERICAN SURVIVAL GUIDE

VOLUME 9, NUMBER 7 JULY 1987

THE MAGAZINE FOR SAFER LIVING

COVER:

The new Yugoslav-made AK-47s imported by Mitchell Arms are full military quality except for semi-auto parts. See page 24 (Photo by Jim Benson).



Page 62

4 Survival Line
Portable nuke reactors, bill to ban handgun ammo, lightest tornado toll.

6 To The Point
Firearms liberty carries heavy responsibility.

8 Survival Self Test
How much do you know about preserving meats and vegetables?

9 Books/Videos
Nuke protective diet Soviet electrogravity weapons, anti-terr video.

10 Automatic Knife
Push-button opening for one-handed operation.

12 New Products
Equipment of interest to the self reliant.

14 Top Loader
Reload a Mini-14 with stripper clips through the breech.

18 Heat Disorders
Emergency help for those suffering from heat sicknesses.

22 Night Vision
Devices that let you see in the darkness.

24 New AK-47s
Exciting semiauto imports from Yugoslavia.

28 Mud Cookery
Using mud to cook food in instead of pans.

30 AR-15 'Full Auto'
Does your non-Colt AR-15 have auto parts? Beware.

34 Terrorist Arsenal
Unconventional weapons used by terrorists.

38 Outdoors Companions
Cutlery for outdoors enthusiasts from Coleman-Western.

43 Scope Mounts
For imported and new military rifles of all types.

44 Bush Shorts
Dutch and U.S. military surplus cutoff pants.

46 Military Gas Masks
A review, rating of U.S. and some foreign masks.

50 Land Navigation
Use of a map, compass, protractor to find your way.

53 Collapsible Canteen
Military issue 5-quart canteen/floatation device.

56 Pocket .380
Neat little defensive handgun from Detonics.

58 El Machete!
The machete is a very useful tool with many functions.

61 Survivalist Directory
Confidential listing for survivalists seeking communication.

62 Water Survival
Tips to save yourself or others while in/on water.

64 DEST
The Navy's Desert Environment Survival Training program.

68 Mail Call
Letters from the survivalist community.

70 Classified Ads
Messages of interest to survivalists.

72 Parker Cutlery
Samples of the many mail-order blades available.

74 Ducks Truck
Combining luxury, self sufficiency in a tough 4X4.

78 1987 Giveaway
Four prizes for winners of ASG's latest contest.



Page 46



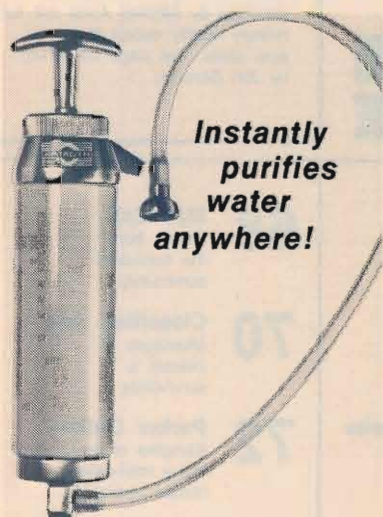
Page 74

WARNING

All technical data in this publication, especially for handloading, reflect the limited experience of individuals using specific tools, products, equipment and components under specific conditions and circumstances not necessarily reported in the article, and over which McMullen Publishing Incorporated has no control. The data have not otherwise been tested or verified by McMullen Publishing Incorporated. All technical data in this publication is presented to inform the reader what other people are doing with various products, and for no other purpose. McMullen Publishing Incorporated, its agents, officers, and employees accept no responsibility for the results obtained by persons using such data and disclaim all liability for any consequential injuries or damages. Furthermore, certain products shown or advertised in this publication, while fully legal in certain jurisdictions, may not be in others. Before attempting to order these products you should check your local and state laws to determine legality.

AMERICAN SURVIVAL GUIDE (ISSN 8756-517X) is published monthly by McMullen Publishing, Inc., 2145 W. La Palma Ave., Anaheim, CA 92801-1785. Phone (714) 635-9040. Reprinting in whole or in part is forbidden except by permission of publisher. Contents copyright 1987 by McMullen Publishing, Inc. Second-class postage paid at Anaheim, California, and at additional office. POSTMASTER: Send address change to **AMERICAN SURVIVAL GUIDE**, McMullen Publishing, Inc., P.O. Box 15690, Santa Ana, CA 92705-0690. **SUBSCRIPTIONS:** U.S. and U.S. possessions, \$21.95 for 12 issues, \$38.95 for 24 issues. Add \$6.00 a year (cash payment in U.S. currency only) for countries outside U.S. possessions. **AMERICAN SURVIVAL GUIDE** Subscription Department, McMullen Publishing, P.O. Box 15690, Santa Ana, CA 92705-0690. Single copy price, \$2.50. Allow 8-10 weeks for delivery of first issue. **CHANGE OF ADDRESS/SUBSCRIPTION PROBLEMS:** Six to eight weeks notice is required on all changes of address. Please include current mailing-label information with all correspondence. Address: **AMERICAN SURVIVAL GUIDE**, Subscription Department, P.O. Box 15690, Santa Ana, CA 92705-0690. **EDITORIAL CONTRIBUTIONS:** Welcomed, but editors recommend that contributors query first. Manuscript should be typewritten on white paper, and all black-and-white photographs and color transparencies must be accompanied by captions. Photo model releases required on all persons in photographs. **AMERICAN SURVIVAL GUIDE** reserves the right to use material at editors' discretion and cannot be responsible for return of unsolicited material, unless accompanied by self-addressed stamped envelope. **ADVERTISING:** Closing date for camera-ready copy is the 15th of the third month preceding cover date. Allow additional time for rough copy. Rate card, circulation statistics, demographics, and production requirements available by contacting Advertising Department. In addition to **AMERICAN SURVIVAL GUIDE**, McMullen Publishing, Inc., also publishes *All About Beer*, *Hot Bike*, *Kit Car Illustrated*, *Popular Cars*, *Street Rodder*, *Street Rodding Illustrated*, *Truckin'*, *Handgun Illustrated*, *VW Trends*, *4WD Action*, and specialty publications.

KATADYN POCKET FILTER



The Katadyn Pocket Filter is a Swiss-made device that **clarifies** raw water and **instantly removes all harmful cocci, bacteria, protozoa, fungi, cysts** including *Giardia* and **parasites** by microfiltration through a 0.2 micron microporous ceramic filter element. **No chemicals** are added or removed. A silver lining fixed to the inside of the ceramic element prevents the growth of algae or bacteria into the surface, keeping it free from contamination. Will operate many years with daily use. Full flow is quickly restored by wiping or brushing off the filter element and can be repeated hundreds of times before replacement is necessary.

The Pocket Filter is standard issue with the International Red Cross and NATO. Essential equipment for backpackers, globetrotters and survival kits. Built-in pump produces 1 quart/minute of safe drinking water. Includes carrying case, cleaning brush and instructions. 10" long, 2" diameter, 23 ounces. Full money-back guarantee.



PROVISIONS UNLIMITED
P.O. Box 456, Dept. 400
Oakland, Maine 04963
(207) 465-3212

- ☐ Check or money order enclosed
☐ VISA ☐ MasterCard

Card # _____
Exp. Date _____
Signature _____
Name _____
Address _____
City _____
State _____ Zip _____

- ☐ Send for free brochure of
high quality water solutions.

SURVIVAL LINE

Portable nuclear reactors for national defense, bills to ban .25-, .32-caliber handgun ammo and 'invisible guns,' lightest tornado toll, relationship between climate factors and crime . . .

THE U.S. Air Force is studying proposals to build hundreds of small, portable nuclear reactors, to be used in the event the U.S. commercial power grid is destroyed in the opening stages of a nuclear war.

The reactors, which would be transported by air to sites both within and outside the U.S., would provide power for communications, data processing links, weapons launching sites, and support and repair facilities.

In testimony before a House subcommittee, the Air Force's Associate Director of Engineering and Services, Gary S. Flora, noted that "the key components of our energy supply and distribution systems are vulnerable to accident, natural disasters, terrorism, sabotage, war and economic actions." He also cited the Reagan administration doctrine on the ability to fight a protracted nuclear war, and the key role of communications between the National Command Authorities, NCA, and the nation's nuclear forces. Without an adequate power system such communications would be impossible, leaving U.S. nuclear retaliatory forces paralyzed.

If approved the portable reactors, each costing between \$65 and \$75 million and capable of generating up to 10 megawatts of power, would be shuttled between hardened underground shelters constructed at various U.S. and overseas locations.

Banning Bullets, Plastic Guns—A newly drafted bill, authored by Sen. Daniel P. Moynihan of New York and dubbed "Moynihan's Monstrosity" by pro-gun groups, seeks to ban the import and manufacture of .25 and .32 caliber handgun ammunition in the U.S.

The Citizen's Committee for the Right to Keep and Bear Arms has called the bill a "back door" attempt at gun control. An aide to the Senator conceded that the purpose of the bill was to remove a large, readily available segment of handguns from the market.

The "Invisible Gun" ban attempt has begun. "Invisible guns," so called because they are entirely plastic and can supposedly evade current weapons screening devices, currently exist only in prototype models. They are expected to be commercially available in a few years.

Anticipating this availability, a number of lawmakers have introduced legislation which would ban the sale or manufacture of "invisible guns" in the U.S. One sponsor of such a bill, Representative Robert Mrazek of New York, says that the effort to ban the weapons is "an anti-terrorism issue, not a gun control issue."

Groups opposing these bills, including the Gun Owners of America, call the bills "nothing more than an attack on the gun owner's right to keep and bear arms." They also question how a law that is effective only within the U.S. would have any impact on international terrorists' ability to acquire these weapons.

1986 Tornado Toll—1986 saw the fewest people killed by tornadoes in the U.S. since record keeping began in 1916. Across the country there were 762 recorded tornadoes resulting in a total of 15 persons killed. Only five states, Alaska, Connecticut, Delaware, Maryland, and Oregon had a tornado-free 1986. Of the remaining 45 states Texas was the hardest hit with 131 tornadoes, followed by Nebraska with 54, Florida with 53, Oklahoma with 47, and Iowa with 42. Officials cite better preparation and civil defense planning as being partly responsible for the low number of fatalities in 1986.

Climate and Crime—When are you more likely to become a crime victim, when it's hot or cloudy, when it's sunny or humid, or when the moon is full?

According to a recent study by two criminology professors, crime rates go up when it is cloudy or hot outside. The crime rate drops as the outside humidity rises.

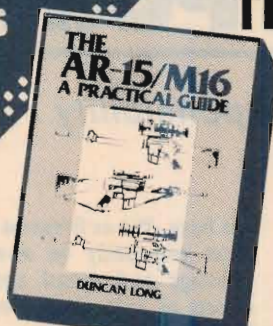
The professors, David Hirschel of the University of North Carolina, and Steven Lab of the University of Alabama, programmed a computer to compare the crime and weather statistics for an unnamed southeastern city over a one-year period. Nine weather variables were included in the program. Of those, only the degree of cloudiness, the humidity, and the temperature showed a relationship to the crime rate. According to the professors the relationship between criminal activity and the weather "appears to be indisputable." The study also showed no relationship between crime and the phase of the moon. ●

**PALADIN
PRESS**



THE AR-15/M16: A PRACTICAL GUIDE

by Duncan Long



The AR-15 is so revered that nations around the globe have adopted it—or many of its features—for use by their own armies. Now comes *the* definitive book on the rifle that has been the inspiration for so many modern assault rifles. Should you wish to build your own AR-15/M16 or convert it to auto fire, Duncan Long supplies you with lists of parts and tools needed for the task and detailed step-by-step instructions. Virtually any accessory you may wish to acquire for your AR-15 is listed. Exploded diagrams for field stripping are included, as are parts suppliers and sources for additional product information. Invaluable to the M16 owner, this comprehensive book also covers assembly and disassembly, conversion kits and modifications, troubleshooting, ammunition, combat use, military use and testing, night-vision equipment, and more. 8½ x 11, softcover, illus., photos, 168 pp. **\$16.95**



IMPROVISED EXPLOSIVES How to Make Your Own

From a former top explosives expert with the Israeli Army comes a manual that presents ten simple yet powerful formulas for explosives and incendiaries that give the basis for making bombs, booby traps and mines. Learn to obtain or make the needed chemicals, or get substitutes. For information only! 5½ x 8½, softcover, illus., 80 pp. **\$10.00**



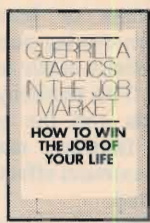
HUNTING ON HORSEBACK by Jim Ottman

The horseback hunt—glorious days spent moseying up and down back-country trails in search of that trophy buck you've always dreamed about. Your trip can be this idyllic with the advice offered here, including tips on equipment, weapons, ammo, getting in shape for the trip and hooking up with a reputable outfitter. 5½ x 8½, softcover, 62 photos, illus., 160 pp. **\$16.95**



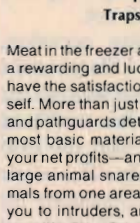
THE MOST DANGEROUS GAME Advanced Mantrapping Techniques

In response to requests for more on trapping the most deadly and dangerous game of all, Ragnar Benson, who brought you *Mantrapping*, tells how to rig more traps without explosives or other accoutrements of war. The do's and don'ts for a successful mantrap are included, as are urban traps designed to make your victim's life miserable. 5½ x 8½, softcover, illus., photos, 120 pp. **\$12.00**



GUERRILLA TACTICS IN THE JOB MARKET

Frustrated with your job? Then get the job of your dreams! This book will truly help you build an effective job-search system, including obtaining your high-school or college degree without attending school, to creating every aspect of your résumé. Put your despairing past behind, and step into your future. 5½ x 8½, hardcover, 384 pp. **\$17.95**



THE TRAPPER'S BIBLE Traps, Snares, and Pathguards

Meat in the freezer and money in the bank. Trapping can be a rewarding and lucrative hobby—even more so when you have the satisfaction of making and setting the traps yourself. More than just colorful outdoor lore, the traps, snares, and pathguards detailed here can be constructed out of the most basic materials, keeping your expenses down, and your net profits—and enjoyment—up. Includes pest snares, large animal snares, and transplant traps for moving animals from one area to another, plus camp alarms that alert you to intruders, and deadly pathguards that could save your life. 5½ x 8½, softcover, illus., 72 pp. **\$8.00**



THE RESCUERS: THE WORLD'S TOP ANTI-TERRORIST UNITS

No one—and no country—is immune to terrorism anymore. And that's where hostage rescue units (HRUs) come in. The *FIRST* and *ONLY* book on HRUs, *The Rescuers* covers the training, ops, weapons and equipment of 50+ units. Five classic rescues bring to life a unit's anti-terrorist tactics. 5½ x 8½, hardcover, photos, glossary, index, 240 pp. **\$17.95**



Want to see your enemies grovel at your feet? The meanest man in the world and author of the infamous *Get Even* brings you more dirty tricks, schemes, scams and stunts. Getting back at a landlord, politician, salesman, utility, restaurant, or supermarket is a cinch with over 130 creatively nasty techniques. For entertainment purposes only! 5½ x 8½, hardcover, 224 pp. **\$16.95**



STREETSWEEPERS The Complete Book of Combat Shotguns

Its deadly spray of massive firepower makes the shotgun the choice weapon in close combat for the soldier and home owner alike. This newest, most comprehensive book covers every type of action, plus ammo, accessories and combat tactics. 8½ x 11, softcover, 64 photos, illus., appendices, 160 pp. **\$17.95**



GET EVEN:
The Complete Book of Dirty Tricks
A hilarious overview of the methods people use to get even with big business, government and enemies. More sophisticated and involved tricks are included, such as ones devised by CIA and Mafia members and political dirty tricksters. Over 80 sections present dirty tricks ranging from the simple to the elaborate. For entertainment only! 5½ x 8½, hardcover, 192 pp. **\$16.95**



NEW I.D. IN AMERICA
Want one more chance at life—with a "clean slate"? Trade in your old identity for a new start. Here is a step-by-step guide to creating a totally new you—with a birth certificate, passport, driver's license, Social Security number—all you need for breaking with your past. 5½ x 8½, softcover, illus., 120 pp. **\$15.00**



ACTION CAREERS Employment in the High-Risk Job Market

The woods are full of people who wish they had taken a shot at adventure when they had the chance. But it's not too late. Adventurer Ragnar Benson details 24 action-packed careers, including PI, bounty hunter, stunt man, gunrunner and rodeo cowboy, and how to break into them. 5½ x 8½, hardcover, 360 pp. **\$17.95**



THE MINI-14 The Plinker, Hunter, Assault, and Everything Else Rifle

The Mini-14 is the most versatile modern rifle, used by homeowners, hunters, survivalists, law enforcement agencies, and military forces. An infinite number of Mini-14s may be constructed with the many marketed accessories. Here is the Mini-14's history, model specifications, and much more. 5½ x 8½, softcover, 58 photos, 120 pp. **\$10.00**

OTHER FASCINATING TITLES

BOUNTY HUNTER.....	\$12.00	NINJA 1990.....	\$45.00
HOME WORKSHOP SILENCERS VOL. 1.....	\$12.00	COLT .45 EXOTIC WEAPONS SYSTEM.....	\$15.00
DEADLY BREW: ADVANCED IMPROVISED EXPLOSIVES.....	\$ 8.00	SECRETS OF LOCK PICKING.....	\$15.00
TERRORISM—ITS GOALS, ITS TARGETS, ITS METHODS— THE SOLUTIONS.....	\$17.95	ASSAULT PISTOLS, RIFLES AND SUBMACHINE GUNS.....	\$19.95
FLIMFLAM MAN: HOW CON GAMES WORK.....	\$16.95	COMBAT SURVIVAL.....	\$14.95
MONEY FOR NOTHING: RIP-OFFS, CONS AND SWINDLES.....	\$16.95	GET TOUGH.....	\$16.95
DIVORCE DIRTY TRICKS.....	\$14.95	BEAT THE ODDS: TIPS FOR DAY-TO-DAY SURVIVAL.....	\$10.00
LIVE OFF THE LAND IN THE CITY AND COUNTRY.....	\$16.95	DEAD CLIENTS DON'T PAY: THE BODYGUARD'S MANUAL.....	\$12.00
		U.S. NAVY SEAL COMBAT MANUAL.....	\$14.95
		RAGNAR'S TEN BEST TRAPS.....	\$10.00

MONEY-BACK GUARANTEE — DEALER INQUIRIES INVITED
PALADIN PRESS • P.O. BOX 1307 • BOULDER, CO 80306 • (303) 443-7250



PALADIN PRESS
P.O. BOX 1307-MBG
BOULDER, CO 80306
Phone (303) 443-7250



Call TOLL FREE for credit card orders:
1-800-351-1700; 24 hours a day, 7 days
a week. Call from anywhere in the U.S.A.
Send \$1.00 for 50 page CATALOG
of over 300 titles. Catalog free with order.

Please send me the following titles:

Payment: ☐ Check or Money Order, ☐ VISA, ☐ MasterCard.

Card No. _____ Exp. _____ SUBTOTAL _____

NAME _____ Please include \$3.00 postage and handling

ADDRESS _____

CITY _____ STATE _____ ZIP _____ TOTAL _____



EDITORIAL

PUBLISHER
Tom McMullen

EDITORIAL DIRECTOR
Bob Clark

EDITOR
Jim Benson

ASSOCIATE EDITOR
Bud Lang

CONTRIBUTORS
Glenn A. Anderson
David Marshall Brahosky
Craig A. Doherty
George E. Dvorchak, Jr.
Phil Figueroa
Duncan Long
Michael Pietrantonio
Steven R. Pressman
Charles W. Sasser
Herbert H. Winters
Carl H. Yaeger
Joe Zambone

EDITORIAL ASSISTANT
Cynthia MacFarlane

PHOTOGRAPHIC SERVICES
Martin Hasa

GRAPHICS

DESIGN DIRECTOR
G. Wm. Tietgen

ART DIRECTOR
Agnes Tam

ADVERTISING

**ADVERTISING SALES
MANAGER**
Bruce Bogart

**ADVERTISING SALES
REPRESENTATIVES**
Gary Mattson
John Nething
Greg Gill

ADVERTISING COORDINATOR
Cathy Giannavola

**McMULLEN
PUBLISHING, INC.**

CHAIRMAN
Thomas M. McMullen

PRESIDENT
Kenneth N. Yee

TO THE POINT

Firearms freedom and responsibility . . .

WHILE I don't intend to write only about gun issues in this column—there are so many other important subjects to discuss—I want to follow up this time on what I wrote about in last month's *To The Point*.

In the June *To The Point*, titled "On being caught unprepared," I talked about a true incident in which three apparently drunk young men, apparently thinking they were playing a joke on a friend whose home is next to mine and very similar in design, angrily pounded on my front door in the middle of the night in a pouring rainstorm demanding that we open up and threatening violence if we did not.

On this rather frightening occasion, awakened from a deep sleep, I discovered I had locked away and otherwise secured my defensive handgun and for a few terrifying moments, feared for my life and the lives of other members of my family. The whole incident ended peacefully, fortunately for all concerned, when the trio of apparent assailants suddenly realized they'd picked the wrong home and scurried off to try their fun on their friend next door.

As I said in last month's column, I don't want to be caught in such a situation again without a means of self protection. My desire to have a loaded, round-chambered, cocked .45 auto pistol in my hands to greet these men, even as it turned out that they were pranksters, probably seems extreme and perhaps even crazy to the anti-gun types. For many of the readers of this magazine, however, it was probably not so extreme a desire.

Nethertheless, I feel compelled to add a few thoughts on the subject, most particularly on the concepts of firearm ownership safety and responsibility, which I did not mention in last month's column.

Maybe to some, my desire to respond (without opening the door) to these men, even though they turned out to be pranksters, with a loaded handgun would seem an overreaction to the situation. But the right to be secure in one's home is a fundamental right dating back at least to the English common law on which much of our present law is based.

Still, there's no question in my mind that such a situation is a very tense and volatile one in which overreaction and haste, anger and fear, can lead to tragedy. And this brings to mind the issue of firearms responsibility.

Owning and using a gun for self defense and the defense of one's family and property is a precious freedom for Americans which citizens of many other countries do

not have. We as firearms owners and users must constantly be aware of this great privilege and guard against the endless efforts of anti-gun forces to take it away from us.

To be sure, a gun is no panacea—no cure-all to every dangerous situation we find ourselves in. It is no guarantee of safety and security. It is insurance, an aid, an improved chance of survival when we are confronted by danger.

Another point: the harm done by the gun-owning fools, the big men or macho men, and, of course, the crazies. Every time someone who owns guns uses them in a rude, arrogant, reckless or hostile manner, the rest of the gun-owning public is hurt by the negative publicity in our substantially anti-gun media. This publicity is very powerful propaganda and the gun grabbers, the anti-gun fanatics, make every effort to use it for maximum effect in getting anti-gun laws passed.

If you've shot up road signs, violated no-shooting laws, threatened someone with a gun without having done so only with cause and only, to use the expression, "in the gravest extreme" of life-threatening situations, you have hurt yourself and the rest of us.

In today's often fast-paced, troubled, high-pressure and demanding world in which we all must survive and cope, it's all too easy to lose your head under pressure or in response to hostility from others, hostility that usually is not life-threatening. This could be me, this could be you.

Possessing a gun for use in self defense can present a dilemma for the gun owner.

Striving to avert violence, overreaction, needless aggression and reckless behavior can be extremely difficult at times for many of us, given the pressures and stresses we experience in our daily lives.

Possessing a firearm is an awesome responsibility, not only to yourself, but to the rest of the gun-owning public. Don't be irresponsible and make trouble for the rest of us. As difficult as it can be to our pride and our integrity to back down or away from a potentially violent confrontation, such action is always the most responsible and the most intelligent course to follow whenever possible.

Don't be stupid, reckless or inconsiderate with firearms. Think about what you're doing with your guns at all times. Observe strict safety precautions and act responsibly, and you'll have your guns in most situations in which you would really need them—*Jim Benson*.

1-800-821-5157

STATE		Date	
1990	1990	1990	1990
1990	1990	1990	1990

SURVIVAL SELF TEST

By Glenn A. Anderson

Copyright, 1987, Glenn A. Anderson

There is considerably more to the preservation of meat and vegetables than depending on commercial electricity to power the family freezer. This month's Self Test has been developed from *Back to Basics*, published by the Reader's Digest Association, Inc., Pleasantville, New York/Montreal. The Self

Test contains questions concerning survival related information on the topic of: the preservation of vegetables, fruits, and meats. Test yourself, then obtain a copy of *Back to Basics*, and study those areas where the Self Test has revealed your weaknesses.

1. Of the following methods of preserving food, which results in the least loss of vitamins and minerals?
 - A. Live storage.
 - B. Drying.
 - C. Canning.
 - D. Salt curing.
2. Live storage of fruits and vegetables is most effective during what seasons?
 - A. Summer and Fall.
 - B. Fall thru Winter.
 - C. Summer only.
 - D. Spring only.
3. In order to be carried out successfully, live storage depends on:
 - A. Low temperature, low humidity.
 - B. High temperature, high humidity.
 - C. Low temperature, high humidity.
 - D. High temperature, low humidity.
4. The floor of an old fashioned root cellar is best constructed of:
 - A. Packed earth.
 - B. Concrete.
 - C. Slatted boards.
 - D. Gravel.
5. The boiling water bath method of canning is best suited for use with:
 - A. Low acid produce.
 - B. High acid produce.
 - C. Green leafy vegetables.
 - D. Starch bearing crops.
6. Of the following, which should be preserved by pressure canning?
 - A. Apples.
 - B. Berries.
 - C. Lima beans.
 - D. Tomatoes.
7. You must increase the length of time canned goods are left in a boiling water bath, or increase the pressure settings on a pressure canner when processing:
 - A. High acid garden produce.
 - B. Fruits such as cherries and plums.
 - C. At temperatures lower than 68 degrees F.
 - D. At altitudes of 1,000 feet above sea level.
8. Of the following, which describes the best storage conditions for canned goods?
 - A. A cool, dark place.
 - B. A warm, light place.
 - C. A cool, light place.
 - D. A warm, dark place.
9. When dry salting has been used to preserve food, what should you do to the food prior to consuming it?
 - A. Brush off the excess salt.
 - B. Wash the salt off under cold, running water.
 - C. Let the food soak in fresh water for 10-12 hours.
 - D. Add one quart of water and boil for 10-15 minutes.
10. The first step to take in brining produce is to:
 - A. Weight it down.
 - B. Cover it with water.
 - C. Add salt to it.
 - D. Blanch it.
11. Low-salt fermentation consists of:
 - A. Letting produce preserve itself in salt and its juices.
 - B. Blanching, brining, boiling and bottling.
 - C. Putting produce up in wooden kegs.
 - D. Extracting the alcohol from fresh produce.
12. Unless pickled produce is to be consumed quite soon after it has been processed, it should also be:
 - A. Pressure canned.
 - B. Canned by boiling bath water.
 - C. Brined and crocked.
 - D. Blanched and bottled.
13. The most common way(s) to preserve vitamin content and preserve flavor in produce to be dried is/are by:
 - A. Fermenting.
 - B. Heat processing.
 - C. Baking and browning.
 - D. Blanching and sulfuring.
14. The optimum temperature recommended for drying produce is:
 - A. 140 degrees F.
 - B. 98.6 degrees F.
 - C. 52 degrees F.
 - D. 47 degrees F.
15. Indoor drying methods are preferable to outdoor drying methods because:
 - A. Sanitation is easier to maintain.
 - B. Sunlight destroys some vitamins.
 - C. Indoor drying is less work.
 - D. Outdoor drying is more complicated.
16. In order to make sure that no spoilage takes place in home dried food, it should be:
 - A. Sealed in tin cans.
 - B. Kept covered and crocked.
 - C. Pasteurized.
 - D. Steamed before serving.
17. Fresh meat can be hung to improve its flavor and texture. The key to this process is:
 - A. Maintaining a 33-40 degree temperature for a specific period of time.
 - B. Hanging the meat over the coals of the burned wood of a specific type of tree.
 - C. Keeping the meat suspended a specific distance from any moisture bearing surfaces.
 - D. Leaving the meat suspended until salt reaches into the bone marrow.
18. Meat which is canned by the cold pack method must be:
 - A. Brined.
 - B. Exhausted.
 - C. Cooked.
 - D. Charcoaled.
19. The only essential ingredient in curing meat is:
 - A. Skill.
 - B. Smoke.
 - C. Salt.
 - D. Patience.
20. For long term preservation, meat may be:
 - A. Cured only.
 - B. Smoked only.
 - C. Cured and hot smoked.
 - D. Cured and cold smoked.

SCORING:

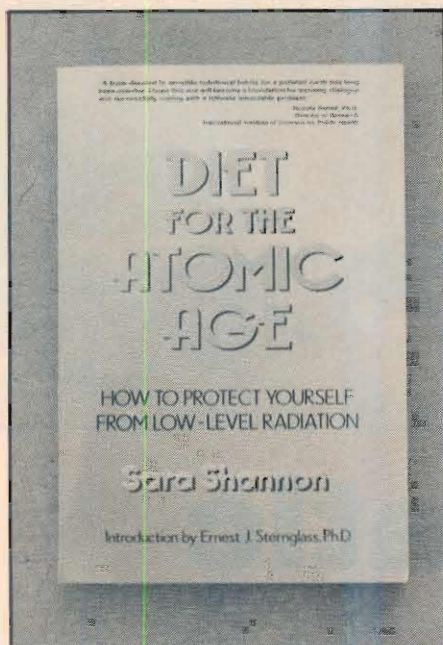
For each Survival Self Test question answered correctly, score yourself 5 points. Then add them up. If your total is:

- Below 70 Sun dry everything.
- 70-80 Salt a few things away.
- 80-90 Can wha'cha can.
- 90-100 Live high off th' hog.

4-D	8-A	12-B	16-C	20-D
3-C	7-D	11-A	15-B	19-C
2-B	6-C	10-D	14-A	18-B
1-A	5-B	9-C	13-D	17-A

ANSWERS:

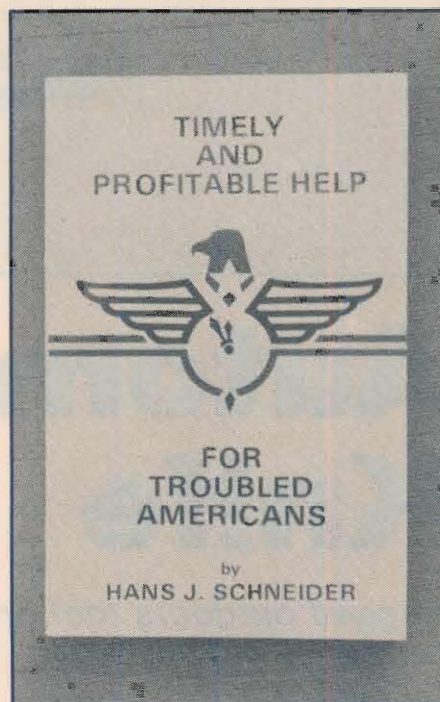
BOOK REVIEWS



Diet For The Atomic Age, by Sara Shannon; Avery Publishing Group, Inc., Dept. ASG, 350 Thorens Ave., Garden City Park, NY 11040; (516) 741-2155; 336 pages, paperback; \$8.95.

This book examines the growing problem of radiation in our environment and offers a rational course of action that any individual can follow. The author, a nutritionist who first became concerned about radiation dangers while living in New York City in 1979 during the Three Mile Island nuclear plant disaster, has thoroughly researched the subject and gives detailed information on the many and increasing sources of harmful radiation in our environment. She has gathered medical and scientific data that shows that certain foods and food supplements have protective properties that can safeguard you and your family from the insidious threat of radiation. She explains how and why these substances can help stave off the effects of radiation and gives recipes that maximize their protective effects. After discussing what radiation is and how it affects us, Shannon notes the many sources in the environment, not only from nuclear plants, radioactive wastes and nuclear weapons testing but microwave radiation from alarm systems, CB radios, cellular telephones, electronic games and radar devices, cigarette smoking and radon gas, to name some sources. Additionally, there is information on what foods to avoid to help increase protection from radiation, how to help keep your immune system strong and other ways to improve your chances. Chapters cover radiation in the environment, how radiation damages us,

survival of the fittest, your body's radio-protective system, foods to avoid, diet for the Atomic Age, supportive supplements, recipes and more.



Timely And Profitable Help For Troubled Americans, by Hans J. Schneider; World Wide Publishing Corp., Dept. ASGT, Box 105, Ashland, OR 97520; (503) 482-3800; 288 pages, paperback; \$8.95 plus 95 cents S&H. Check, money order or VISA/Mastercard.

What's ahead for the next few years? Another rapidly approaching stock market decline? A renewed soaring of precious metals and food prices? Increases in natural disasters? Major problems with the Social Security system? These are just a few of the concerns of the author, who is also a lecturer, economist, pilot, world traveler and son of a former multi-millionaire-industrialist. If you anticipate monetary collapse, a dictatorship and gun confiscation, among other calamities, you should read this book. In it the author reveals his plan for your freedom and survival during economic and civil or natural turmoil. Covered are such topics as self sufficiency, locating your place of refuge, independent energy sources, inflation-proof investments, alternative weaponry and defense tactics, yachting survival, barter items, food preservation and storage and much more. This is a most provocative and interesting work, whatever your beliefs and philosophy about survival.

(Continued on page 16)

HK 91/93/94



HECKLER & KOCH G3 (the **FULL AUTO** version of the **HK 91**) **OWNERS MANUAL**. Operation, maintenance, repair, disassembly, and **FULL AUTO FUNCTION SHOWN** in a step by step sequence of diagrams showing all functioning parts involved. A great aid to the HK 91 owner, a must for those considering conversion. More than 50 pages with photos and diagrams\$8.00

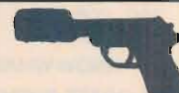
HECKLER & KOCH HK 33 (the **FULL AUTO** version of the **HK 91**) **OWNERS MANUAL**. Same as above for the HK 93\$8.00

HK 91/93 FULL AUTO CONVERSION MANUAL. Instructions, precise drawings and assembly technique. 36 pages, 23 photos and drawings\$9.95

HK 94 FULL AUTO CONVERSION MANUAL. Same as above for HK 94\$9.95

SILENCERS

FROM THE HOME WORKSHOP



Plans, instructions, parts list, parts source. Genuine suppressors, not copies of old patents or useless drawings. 51 pages, 46 photos and drawings\$8.95

SURVIVAL BOOKS

11106 MAGNOLIA BLVD., N. HOLLYWOOD, CA 91601-3810 • ATTN. DIRK (818) 763-0804 OPEN 7 DAYS

Prices subject to change • Catalog \$2.00 • Orders paid with money order or credit card sent immediately, personal check orders held 4 weeks.

GENUINE GI JUNGLE BOOT

SIZES 4-14, R, W, X-W,

some 1/2 sizes

\$49⁹⁵



Spike Protective, canvas-nylon uppers, leather bottom, screen vent in arch.

MASTER CHARGE, VISA, COD's accepted. Send for our free 9 page price list of other government surplus including camouflage fatigues.

Valley Surplus
Box 346-SG
Tariffville, Conn. 06081
(203) 658-6228

ALL ORDERS POSTPAID BY UNITED PARCEL SERVICE ONLY. FOR ORDERS WHICH MUST BE SENT BY POST OFFICE, PLEASE INCLUDE SUFFICIENT POSTAGE FOR SEVEN LBS., INSURED.

NUCLEAR WAR INFORMATION



Complete computerized analysis of the effects of Soviet Counterforce and All-out attacks. Done for your specific location. Includes all essential blast and fallout parameters, shelter stay time, shelter design requirements, suggestions for relocation, etc. Each analysis individually researched. Presented clearly and concisely. Includes 8 page Analysis Guide.

KNOW WHAT TO EXPECT!

LOCATE SURVIVABLE AREAS!

Describe location with either longitude and latitude or maps, descriptions, etc.

Send \$24.95 per analysis to:
(North America only.)

GO SOFTWARE
P.O. BOX 182
DeWitt, IL 61735



RADIATION DETECTORS

ANY SURVIVAL PREPARATION IS INCOMPLETE WITHOUT THEM

MURPHY'S LAW STATES THERE WILL BE MORE INDUSTRIAL ACCIDENTS, MORE NUCLEAR POWER PLANT MELTDOWNS, MORE NUCLEAR WASTE TRANSPORTATION ACCIDENTS, MORE MILITARY ACCIDENTS, AS WELL AS POSSIBLE TERRORIST DIRTY BOMBS, TERRORIST CONTAMINATION, AND MAYBE THE BIG BANG WHICH ODDLY ENOUGH COULD BE THE CLEANEST OF THEM ALL.

CAN YOU AFFORD TO WAIT ON THE GOVERNMENT TO CHECK YOU OUT OR DECONTAMINATE YOU AND YOUR FAMILY WHILE 1/4 MILLION OTHER PEOPLE ARE CLAMORING FOR THE SAME SERVICE?

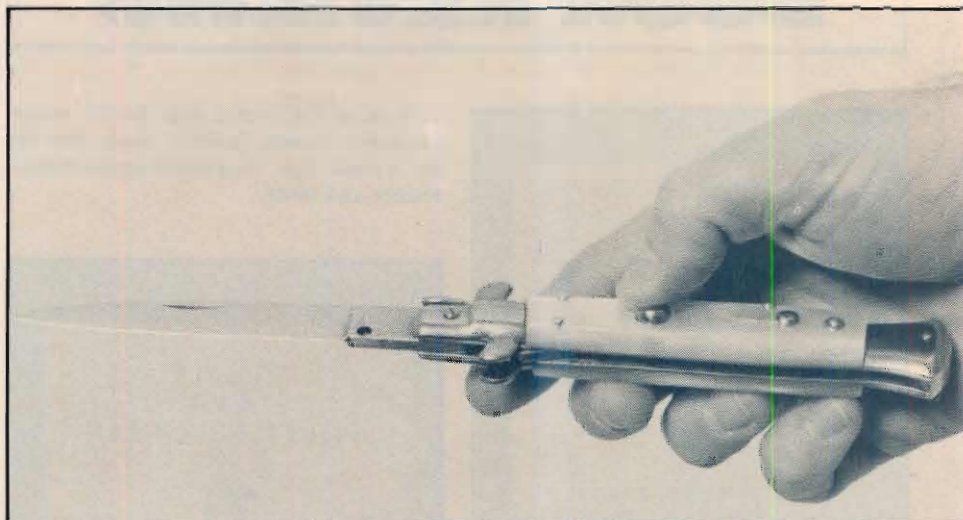
Our VIDEO will not only show you our complete line of radiation detectors but will also show you how to use them and how not to use them. It will also contain decontamination techniques for you and your family. We will discuss the above scenarios and suggest to you realistic ways to survive them.

FOR COMBINATION SHOPPER/TRAINING VIDEO:
SEND \$25 and NAME - ADDRESS TO:

Beta **NUCLEAR VIDEO**
or **P.O. Box 607**
VHS **Pecos, N.M. 87552**

Totally refundable or credit on purchase

One-handed Operation:



Automatic Knife

*Rugged outdoors tool or
attractive conversation
piece . . .*

Staff Report

THE Model 120 automatic knife offers the sportsman, blade enthusiast or collector a number of features that make it a rugged outdoors tool or attractive conversation piece.

It's only one of 125 models of cutlery available from The Edge Company which specializes in outdoors and sport cutlery. Each Edge Company knife is sold with a full money-back guarantee of customer satisfaction. These knives are not sold in stores, but directly from The Edge Company, which will ship anywhere in the world. The Edge Company has offices in Phoenix, Portland and Brattleboro, Vermont and recently celebrated its fifth successful year with publication of its new full-color 1987 catalog.

The Model 120 is 8½ inches overall with a 3¼-inch blade of 440 stainless steel tempered to 52 on the Rockwell hardness scale. The handle is brass and pearlite. It has a safety slide lock which prevents the blade from opening accidentally. The blade swings out and locks in place instantly with the press of a button for one-handed operation. Sold in legal kit form. Be sure to check and comply with all laws



governing possession of this knife before assembling it.

The Model 120 is \$49.95 from The Edge Company, Dept. ASG, P.O. Box 826, Brattleboro, VT 05301; call toll free to order (800) 445-1021 and ask for the free full-color catalog of The Edge Company's other fine blades while you're at it. ●

A Home Radiation Detector May Save Your Life — and Your Family

"The nearest nuclear power station is hundreds of miles away; therefore, I don't have to worry." **WRONG.** You do need to be concerned. It is possible to be exposed to radiation in your own home. **HOW?** Do you live near a major interstate highway or near a transcontinental rail line? If the answer is **YES**, then you can be living in a high risk area for a nuclear incident. The possibility of an accident carrying radioactive contaminated material is increasing. It is via these two means — interstate highways and transcontinental rail lines — that the transfer of radioactive material occur. The movement of ore from the refinery to the user or the transfer of waste to a storage dump site are occurring continuously. Over the last several years, a number of accidents have occurred. In one such accident a loss of 50 pounds of uranium was reported.



Will it happen again? If it does will it be down the street from me? How can I protect myself?

These questions will be plaguing society for years to come. Self protection from exposure may not be totally possible; however, the duration of the exposure can be shortened by having immediate knowledge of an increase in the level of radiation. Our public officials will notify us of any potential problems, but how quickly can they react? immediately? 5 minutes? 10 minutes? 30 minutes?—an hour? Early detection allows you to move **your** family to a safer environment sooner, thereby shortening the length of the exposure.

Peace of Mind

Just as your smoke detector will warn you of a possible life and death catastrophe from smoke and fire, **SURVIVOR** will **WARN** you of a significant increase in the level of radiation. **SURVIVOR** is a quartz controlled digital processor monitoring the level of radiation around **YOU**. As the threat of higher levels of radiation occur, **SURVIVOR** will warn you **NOW**. **SURVIVOR** will detect Alpha and Beta particles, Gamma X-rays, and **high** concentrated levels of radon gas.

Ease of Operation

SURVIVOR is designed to be plugged into any 110 volt outlet. A green LED will tell you it is looking for an increase in the radiation level. Should you lose 110 volt power, a rechargeable battery will take over for continued protection. At that time the green LED will go out and a red flickering LED will tell you of the 110 volt power failure. To test the alarm, simply push the test button on the top.

An automatic pre-set alarm of 32 counts per 8 seconds (which is equal to .25 mR/hour) determines the level at which **SURVIVOR** will sound the alert. A loud piercing beep warns you of an increase in the level of radiation above this pre-set level. You can then unplug **SURVIVOR** from the wall and switch the mode switch from **ALARM** to **CLICK**. It can then be used as a geiger

counter in determining the direction of the radiation source by an increase in the click rate, thereby allowing you to move in the opposite direction to a safer environment.

Satisfaction Guaranteed

There is only one way to get **SURVIVOR**, from the factory. By selling direct to the customer and eliminating the middle man, we can offer **YOU** high quality for less money. Commercial detectors without automatic alarm functions sell for over \$500.00. Try **SURVIVOR** at **NO** risk. Take the first 30 days with **SURVIVOR** as a test. If you are not completely satisfied, return it for a **FULL** refund. **SURVIVOR** is also backed with a one year limited warranty on both parts and labor.

Order Today

By Phone: Call us toll free. A member of our sales staff will be glad to answer any questions and take your order. (Please have your **VISA** OR **MASTERCARD** available when you call.)

Call Toll Free

800-458-4931

In Ohio Call

513-530-5242

(Call Collect)

By Mail: Send your name and complete address, daytime phone number, and how many **SURVIVORs** you wish to order. Please enclose a check, money order, or card number and expiration date from your **VISA** or **MASTERCARD**.

SURVIVOR

\$185.00

(Ohio residents add \$10.18 sales tax)

© 1987 THRESHOLD TECHNICAL PRODUCTS

Threshold Technical Products
Department 215
7225 Edlington Drive
Cincinnati, Ohio 45249



NEW PRODUCTS

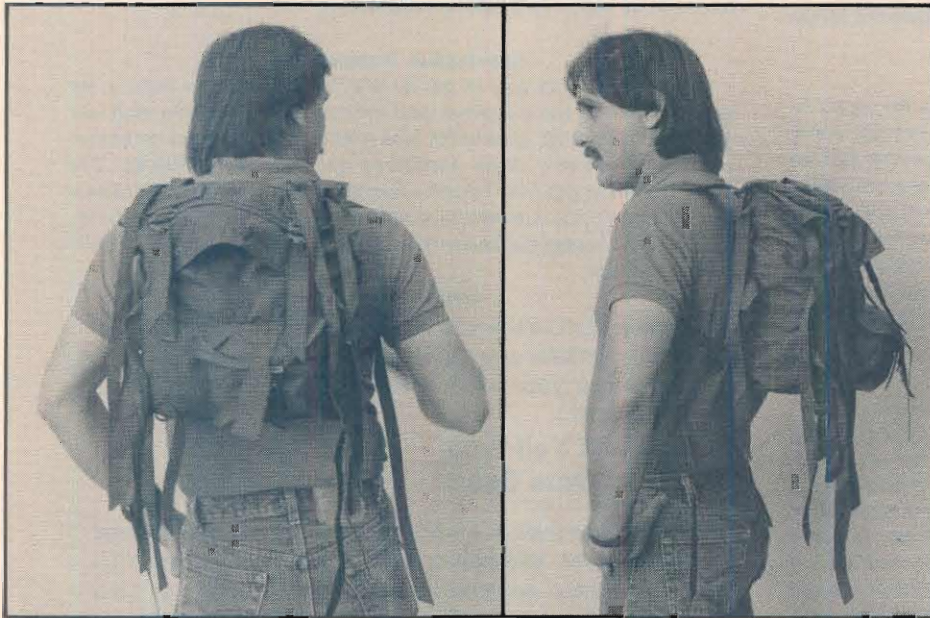
New Folding Stocks



Now the only Folding Stocks for Marlin .22s and Camp Carbine in 9mm and .45 are new from Ram-Line, Inc. Ram-Line has tooled its unique all plastic stock to fit Marlin .22s and Camp Carbine in 9mm and .45, and ruggedness has been proven on the Ruger 10/22 and Mini-14. It features innovative styling that makes the Marlin look and perform like a totally uplifted weapon. And it's lighter than the wood original. An internal compartment in the "Laser" styled pistol grip holds survival or

cleaning gear, while the forearm area has ribs for extra gripping power. And, unlike wood, the spaceage plastic doesn't absorb water or crack with humidity. At only \$57.95 (M70) to \$59.95 (Carbine) this Folding Stock converts the Marlin into an awesome looking ranch rifle, plinker, or survival gun—that performs! For more information see your gun dealer or write to: Ram-Line, Inc., Dept. ASG, 15611 W. 6th Avenue, Golden, CO 80401.

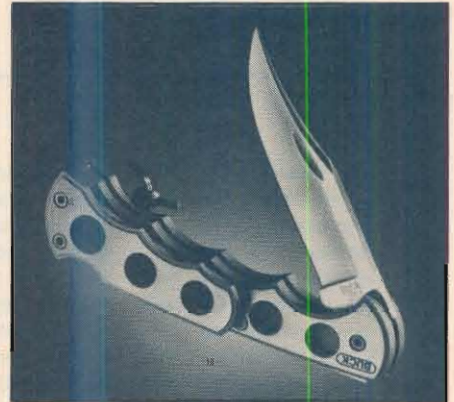
Malaysian Backpack



This new surplus item from Survival Inc. (SI) is compact and rugged, ideal for a day trip to the woods or mountains or for longer journeys. It's made of heavy duty moisture-proof nylon, with large main cargo compartment that has a waterproof collar. Webbed nylon adjustable shoulder straps that are 2 inches wide for maximum comfort and wear. Accessory pouch on the outside. Reinforced flap with tie-down straps to cover and secure the pack and

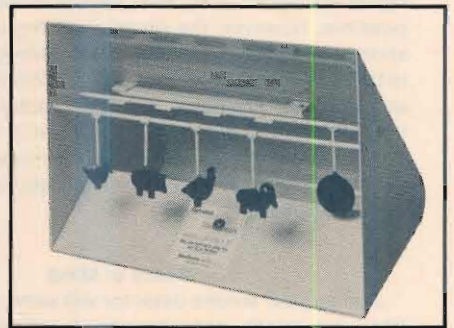
lots of extra straps on the outside to secure extra gear. The pack measures 10 inches wide, 12 inches tall and 5 inches deep. Cargo pocket measures 6 by 6 by 3 inches. But these are just the outside measurements. You can really stuff this bag to hold more gear. OD in color. Price is \$14.95 plus \$2 S&H, two packs \$28 postpaid from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; (213) 324-8855; outside California (800) 533-7415.

Buck's Titanium Lockblade



The Titanium (Model 18600) is the newest folding lockblade from Buck Knives. Use of titanium for the skeletonized side panels makes it surprisingly lightweight and as close to corrosion free as you can get. Designed to be field stripped for cleaning, the Titanium comes with a hex-wrench attached—the only tool required. Used with the belt clip provides, no sheath is needed. The 3¾-inch clip blade is high carbon, high chrome, rust resistant steel, tempered to hold an edge. Length closed is 5 inches. See your knife dealer.

Silhouette Pellet Trap



A rugged pellet (not BBs) trap, with four resettable silhouette targets for indoor and outdoor family target shooting, has been introduced by Benjamin Air Rifle Co. After being "knocked down," the duck, ram, turkey and boar silhouettes are reset automatically by a magnetic mechanism, triggered by a shot to a fifth, round target. Measuring 18 inches wide x 12 inches high x 13 inches deep, the trap is made of 14-gauge steel with sturdy welded fabrication and black-on-yellow color scheme for maximum visibility. Suggested retail price of the trap is \$61.80. For more information, contact Benjamin Air Rifle Co., Dept. ASG, 2600 Chicory Road, Racine, WI 53403, phone (414) 554-7900.

Black Chrome Police Knife



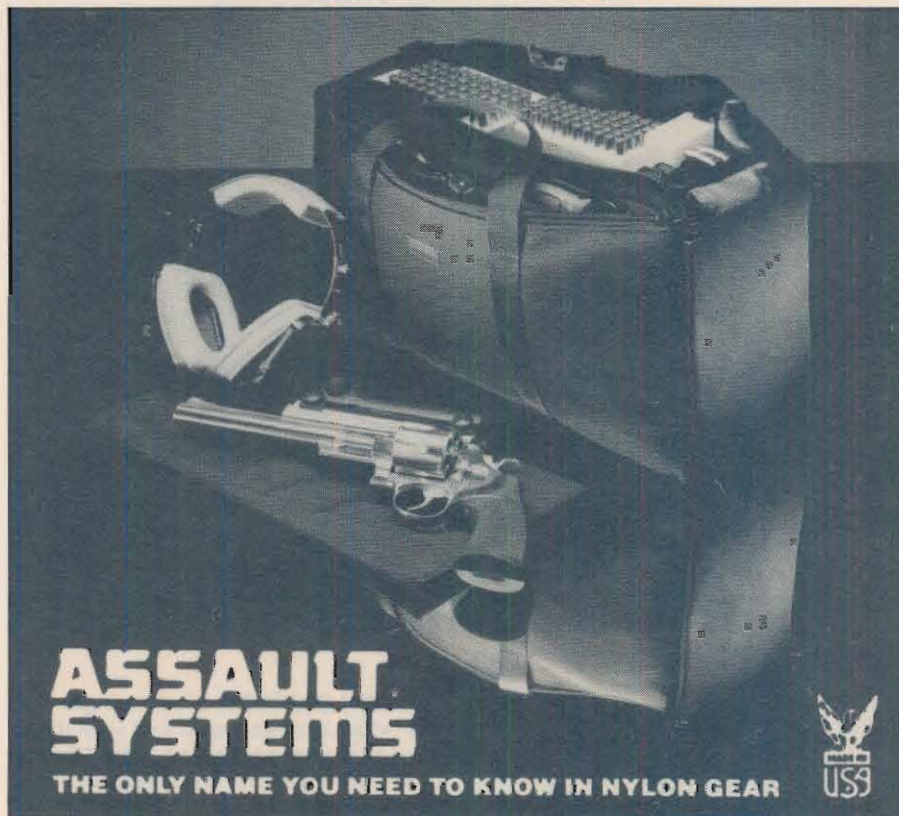
Syderco, Inc. introduces its new black chrome sulfide coated Police Model Clipit pocket lockback folder. This is the same famous Police Model from Spyderco as the original except it's made from G-2 Chrome molybdenum stainless steel which is quite a bit tougher than the still tough stainless steel of the original Police Model, and the entire knife is coated with the black chrome sulfide which holds up well. Serrated blade is 3 3/4 inches long; the knife is 5 1/4 inches closed. Available in right- or left-hand models. With its dull matte black finish, the black coated Police Model is gaining in popularity with law enforcement personnel as well as the general public. This knife retails for \$80 and you can buy it at your favorite blade dealer or from Spyderco directly. Contact Spyderco, Inc., Dept. ASG, P.O. Box 800, Golden, CO 80402-0800; (303) 279-8383 or toll free at (800) 525-7770. Ask for Model 1007R-SER.

B Ready Radio



Free Energy Systems Inc., of Lenni, Pennsylvania, has recently added a solar powered radio to its line of photovoltaic products. This radio will provide the user with hours of power before the need to recharge occurs. Keep your radio on a window sill or under a light and it will always "B ready." This ever ready radio will replace the need of expensive batteries saving you dollars every time you turn it on. Wireless sound is for everyone!!! Use it for fun, on vacations, camping trips, boat trips, use it for emergencies, power failers, remote locations construction sites. Never a need to plug in or be without information during an emergency. Free energy's "B ready" radio will keep you tuned in at all times. The radio is \$99.50. For more information contact Free Energy Systems Inc., Dept. ASG, P.O. Box 3030, Lenni, PA 19052; (215) 459-2158.

Assault Systems 1987 Catalog



Assault Systems announces their 1987 catalog, filled with state-of-the-art nylon products. Weapon cases, holsters, gear bags, clothing and luggage. Over 250 items. All featuring the exclusive unconditional guarantee. Gear that's been in use

for years with federal agencies, U.S. military and law enforcement personnel throughout the world. Send \$2 to Assault Systems, Dept. ASG, 1075 Headquarters Park, Fenton, MO 63026. ●

M1 Garand-Style:

Top Loader



The stripper clip with 10 rounds of .223 ammo is all that's required to reload this Mini-14 using the Top Loader which has been installed in front of the rear sight.



The Top Loader installs in minutes using only an Allen wrench and does not interfere with the rifle's sights.

TOP LOADER is a new, simple tool which enables you to load your Ruger Mini-14 from the top of the opened breech of the rifle right into the magazine, using stripper clips just as you would with an M1 Garand.

Save weight and space on your web belt that would otherwise be used for magazine pouches.

Top Loader installs in just five minutes and does not interfere with the rifle's

Reload your Mini-14 with stripper clips, using only one magazine . . .

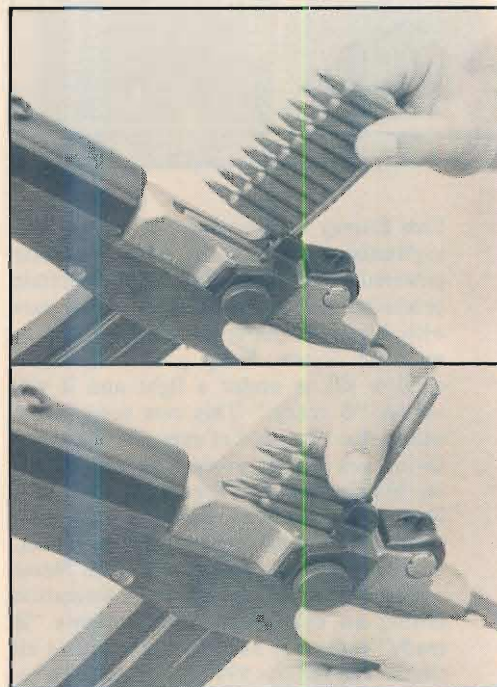
Staff Report



The Top Loader before installation.

sights. You never have to remove the magazine from your Mini—unless you want to.

The Top Loader is available with U.S. military cloth bandolier and 14 10-round stripper clip set for \$29.95 from Wolfe's, Dept. ASG, 704 E. Commonwealth, Fullerton, CA 92631; (714) 441-0620. California residents add 6 percent sales tax. Extra cloth bandoliers with 14 10-round stripper clip sets are \$4.50 each. Also available is a Mini-14 extended magazine release lever for \$9.95. ●



Once the Top Loader is installed, you load your Mini with a stripper clip as shown here, just like you do with the M1 Garand.

**NOW
AVAILABLE**



SURVIVAL GUIDE BINDERS

Your collection of *Survival Guide* Magazines may someday save your life. Protect this valuable reference material in these sturdy storage binders. Magazines can be inserted and removed easily at any time without damage. Each binder covered in durable gold vinyl, is embossed with the *Survival Guide* title.

ORGANIZE AND
PRESERVE YOUR
LIBRARY OF SURVIVAL
GUIDE

Only \$5.95 EACH

Send me *Survival Guide* binders at \$5.95 each. Add \$2.00 for postage and handling for one binder. \$1.00 for each additional binder. California residents add 6% state sales tax. Please allow four to six weeks for delivery.

Name _____

Street _____

City _____

State _____ Zip _____

Total Amount Enclosed: \$ _____

Mail This Coupon To:
SURVIVAL GUIDE BINDERS
2145 W. La Palma Ave.
Anaheim, CA 92801

New
60-Day
Money-back Guarantee

HI-POWER MODEL PELLET RIFLES

New
Dealer Inquiries
Welcome

- Single Pump Break Action • Adult Type
- 300 Yard Range • 5-Year Manufacturer Warranty
- .177 Cal. (4.5 mm) Lead Air Gun Pellet

Model 61 - Order No. AC-61

650 FPS

\$28.95*

Model 62 - Order No. AC-62

700 FPS

\$32.95*

Model B3-1 MAGNUM
Order No. AC-B3-1

800 FPS

\$38.95*

Extra

LEAD PELLETS.

200 Pellets per box
10 boxes per carton
Order No. AC-G6263

PER
CTN.
2000 PELLETS

\$9.00

*\$4.00 Postage & Handling Per Air Rifle
*\$1.50 Postage & Handling Per Carton of Pellets

ORDER BY MAIL FROM:

MIDWEST SPORT DISTRIBUTORS, INC.

Lucky Street, Box 129 K, Fayette, Mo. 65248

VISA-M.C.-AM EXP. & C.O.D.

FREE
56-page
Catalog
With Order

TOLL-FREE
24-Hours

ORDERS ONLY 1-800-248-5128 or 1-800-227-1617 Ext. 601

NEW 6 FT. TAKE - DOWN BLOWGUN SURVIVAL WEAPON SILENT POWERFUL

60-DAY MONEY
BACK GUARANTEE

NEW SAFETY MOUTHPIECE

DEALER
INQUIRIES WELCOME

Bore-Lock Cone Darts
\$10.00 per 100

Our guns come
fully assembled.
Not a kit that
you have to put
together.

Beaded Darts
\$3.50 per 100

Broadhead Tips
\$10.00 per 100
(5 free with gun)

IMMED.
DEL.

Selling for \$50.00
in Europe
U.S. Price \$24.98

FREE TARGETS (increased speed) Now get 4 Blowguns in 1
Aluminum Collars are Molded for Tight Fit
Free Quiver holds 12 Darts
Fully Camouflaged

Thousands
already sold!

Unavailable Elsewhere

IDEAL
GIFT

Don't be fooled by
other's low prices.
This is the finest
Blowgun on the market

You get combined:
2' Blowgun
3 1/2' Blowgun
4 1/2' Blowgun
6' Blowgun

All for \$24.98
plus 125 free darts
plus carrying tube

The NEW 4-in-1 Yagua 6' Take-Down Blowgun combined. Through modern engineering comes the first blowgun of its kind! Super Speed! Low Friction! Dart flies out of chamber as never before. Great for hunters, backpackers, hikers or any sportsman. Astound friends! Has range up to 200 ft. Can pierce 1/2" wood. NOT A TOY, dart is spring steel. Clever kit lets you adjust dart for large game or small. Kills varmints. Caliber is .40. Safety mouthpiece is rubber of patented design. Material is camouflaged aluminum. Comes in its own carrying tube. Complete with 125 dart kit. \$24.98 plus \$2.00 postage & handling. Buy 3 guns, get 500 darts FREE. Order by mail from: (PROHIBITED IN CALIFORNIA)

Free with each
Blowgun
100 Bead Darts
&
25 Cone Heads

FREE 60-page
Catalog
with order

Midwest Sport Distributors, Inc.
(FORMERLY EXOTIC SPORTS, INC.)

Lucky St. Box 129 K Fayette, Mo. 65248

VISA, M. C., AM. EXP. & C.O.D.

TOLL FREE 24 HRS.-ORDERS ONLY

1-800-248-5128 or 1-800-227-1617 ext. 601

Dealers buy 12 units for only \$165 plus postage

Professional Locksmithing Tools

LOCKAID

Specifically designed to pick tumbler locks. Designed over thirty years ago to aid law enforcement agencies. Consists of tension wrench, three needles and Lockaid "Gun." Prices include a copy of the book "Lock Picking Simplified." Lockaid \$59.95



PIX MODEL 13

This deluxe yet compact kit features 11 of the most commonly used tools. Comes in a slim cowhide leather case for discreet undercover operatives. As a special bonus, a 5 piece set of **warded picks** is included. A 16 piece set total. Also included, a copy of "Lockpicking Simplified." Receive all this at a Low price of:



PIX 13 \$39.95

PIX-QUICK MODEL A

These high quality picks feature new lighter non-breakable plastic color coded handles. Picks are of .022 blue spring steel... hardened to perfection. Eight piece set comes with handy see-through case with two extra pockets and a copy of "Lockpicking Simplified."



Model A \$19.95

PIX-QUICK MODEL B

Same color coded set as Model A. Only with deluxe 13 pieces. Price includes tension wrench and book.

Model B \$27.95

BOOKS

Lockpicking Simplified	\$6.00	Safe & Vault manipulation	\$9.95
Complete Guide to Lockpicking	\$9.00	How to Pick Pins & Wafers	\$8.95
Improvised Lock Picks	\$9.95	Combination Locks	\$6.00
Tubular Locks	\$7.95	Keys by Impressioning	\$6.00
Lockout and forced entry	\$7.95		

NEW ITEMS

KEY RING PICK SET



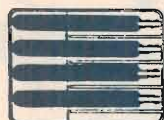
ESP-13

This handy new pick set is the most popular set among professional locksmiths today. This kit consists of 12 different tools housed in a handsome black leather case designed for a shirt pocket. Included in the price, you receive a 5 piece **warded key set** and a copy of "Lockpicking Simplified." 17 piece set total.

ESP-13 \$42.95



This unique design is ideal when low profile is required or to keep on your keyring for emergencies. Contains a tension wrench, three picks and the "Key Pick." Key Ring Pick Set \$24.95



DOUBLE SIDED DISK TUMBLER PICKS

Set of 4 picks designed to be used on the most popular double-sided disc tumbler, showcase, cam and padlocks.

\$24.95

MINI PICK TUBULAR

The most effective tubular pick on the market, unlike the larger picks with long handles or screwdriver handles. The longer the tool, the more pressure needed which causes easy breakage. The advantage of the Mini Pick is it is so short, you only use your thumb and index finger. With a little practice this tool will open a tubular lock in less than a minute.



\$59.95

SESAMEE DECODER

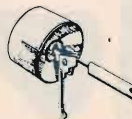
This tool was designed to decode the exact combination of a sesame padlock without damaging the lock. Detailed instruction included.



\$17.95

SCHLAGE WAFER

The most fantastic tool you will ever use. This set consists of two base keys and pick. Complete instructions included.



\$24.95



Send to
Steve Arnolds
Gun Room
P.H. 300
Foreign orders
Add \$3.00 P&H
CA Res. Add 6%

Orders over \$100.00
Free Shipping
Catalog \$2.00 —
Free with order.

163 E. IMPERIAL HWY., LA HABRA, CALIFORNIA 90631 (714) 526-2504

Book Reviews

(Continued from page 9)



Beat The Odds—Tips For Day-To-Day Survival, by Don-Paul Cox; Paladin Press, Dept. ASG, P.O. Box 1307, Boulder, CO 80306; (303) 443-7250; 160 pages, paperback; \$10 plus \$3 S&H.

"We all move in and out of danger zones with increasing frequency," observes the author. "Each and every day in the U.S. about 50 people are gunned down, stabbed or beaten to death, 50 people are killed by drunk drivers, 275 die of lung cancer, 17 drown, 17 are burned in fires, 250 are raped, 2,500 have their cars stolen, 7,500 have their homes burglarized, 5,500 are bitten by dogs and 1,600 are robbed." The overwhelming majority of this suffering can be prevented, Cox says, if potential victims can be taught the principles of dealing with danger zones. The purpose of the book is to expose these danger zones and provide the essential information needed to avoid trouble and death. Chapters cover mishaps and disasters with airplanes, vehicles, boats, bombs, dog attacks, drunk drivers, earthquakes, fire, floods, guns, kidnapping, lightning, muggers, nuclear war, poison, rape, sexually transmitted diseases, shark attacks and tornados. There's information on safety for children, first aid and home security. While no one book can give all information available for the most safety and security, this book offers some briefly stated yet valuable information that you might not have been aware of. It would be a good addition to a survival library.



By Lt. Col. T.E. Bearden (Retired)

Fer-De-Lance: A Briefing On Soviet Scalar Electromagnetic Weapons, by T.E. Bearden, Lt. Col., Ret.; Telsa Book Company, Dept. ASG, P.O. Box 1685, Ventura, CA 93002; (805) 643-0432; 255 pages, paperback; \$27.50 plus \$1.50 S&H.

For three decades, contends the author, a retired U.S. Army officer, the Soviet Union has been developing, deploying and testing eerie new scalar electromagnetic (electrogravitational) weapons which, until now, have not been understood by Western scientists. These weapons are said to be so powerful that they could destroy all life on earth if they are not controlled. The book presents the basic concepts of these frightful new weapons, some of the major types available, the alarming nature of their effects, and startling evidence of their widespread use by the Soviets. The author goes on to assert that the Soviets have been committing acts of war against the U.S. and other countries in secretly testing these awesomely destructive devices, including the destruction of the Arrow DC-8 on Dec. 12, 1985 that killed 250 American military personnel, and even interference in the U.S. space program by destroying the space shuttle Challenger and other rockets and satellites launched by NASA. Bearden urges that the U.S. develop scalar EM defenses at the utmost speed, and then reach an agreement with the Soviets restricting use of the weapons. He states, however, that soon many other nations will be able to have such devices and contends this threatens humanity unless steps are taken to curb their use.

NEW VIDEO RELEASE



ANTI-TERRORISM: WEAPONS & TACTICS

Anti-Terrorism Weapons & Tactics, a video tape from New & Unique Videos, Dept. ASG, 2336 Sumac Drive, San Diego, CA 92105; (619) 282-6126; 30 minutes. Full color. Available in BETA or VHS; \$38, credit cards accepted.

This video transports you to one of Europe's leading anti-terrorism training facilities—Delta Firearms, Ltd., in the

SUPPORT American Survival Guide Advertisers

United Kingdom. Anti-terrorism authority Peter Eliot shows you numerous weapons and tactics used by instructors there in teaching bodyguards and other security personnel how to repel terrorist attacks, free hostages and escape from terrorist ambushes. The instruction employs the use of live ammunition, powerful plastic explosives, stun grenades and special weapons and ammunition. You'll see a rescue team boldly gain access to dangerous places where simulated hostages are being held and effect rescues. The tape also offers some common sense travel safety tips to help you avoid a terrorist attack. This is a good video for anyone interested in anti-terrorism. ●



**BECAUSE THE GUN
IS THE GAME.**

People who play for fun also like to win. That's why Pursuit Marketing created the PMI rapid-fire, constant CO₂, long-barrel paint pistol. The model PMI is a high-performance, state-of-the-art pistol specifically designed to meet the demands of the serious paint ball game enthusiast and is available from Pursuit Marketing, exclusive distributor in North America.

Flawlessly manufactured by Sheridan craftsmen from rustproof genuine brass, aluminum and stainless steel, the PMI can be operated with a standard 12 gram CO₂ cartridge or a 7 oz. canister to deliver factory constant CO₂ for 300 to 400 shots. It's light, well-balanced, fast and easy to sight and load.

Pursuit is the source for all of your game needs — pistols, rifles, paint balls and accessories. They're always in stock for immediate shipment. And Pursuit has all the knowledge, experience and expertise you'll need to be advised on America's fastest-growing game sport.

For dealer and distributor information,
phone or write:



PURSUIT MARKETING, INC.

1966 Raymond Drive, Northbrook, IL 60062 • (312) 272-4765

Cramps, Exhaustion, Stroke:

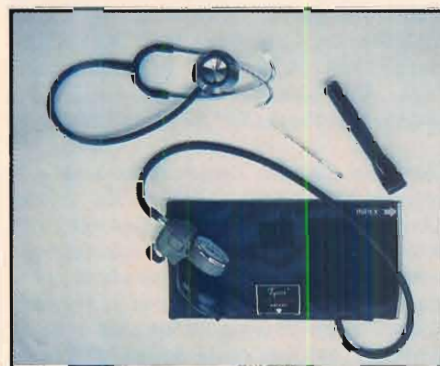


Matthew Dvorchak, M.D. takes the author's blood pressure in Matthew's clinic. In an emergency situation, the location is usually far from ideal and stress on the examiner is considerable. Learn to take blood pressure readings so that in emergencies the procedures become secondary.

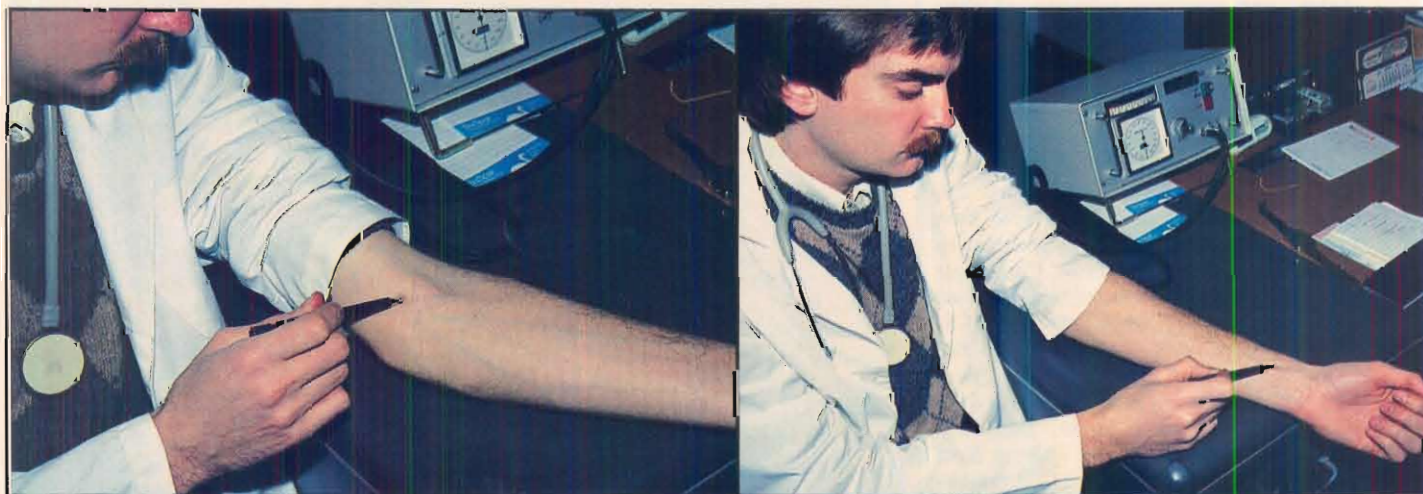
Heat Disorders

First aid for disorders associated with high temperatures and humidity . . .

By George E. Dvorchak, Jr., M.A., M.D.



Basic equipment for taking blood pressure is a stethoscope, blood pressure cuff, flashlight and thermometer. A good first aid course can help you learn how to use this equipment effectively.



Dr. Dvorchak points to his brachial artery, above left, and to his radial artery, above right. You will know you have found these arteries when pulsation or beats can be felt under your second or third fingers.

ON a recent trip to Mexico, I was called upon to assist a tourist who was suffering from heat exhaustion. What astounded me about this disorder was not only didn't anyone recognize the problem, but that no one knew how to assist.

With the hot and humid summer months approaching, I hope that this basic presentation will serve as a guide to those of you who could assist someone who is suffering from one of three disorders brought on by excessive heat.

Clinically, these syndromes can be separated. Yet, for all practical purposes, each disorder overlaps into one or more of the others.

Before attempting to outline specific disorders we need a list of risk factors that generally can pertain to all.

RISK FACTORS:

AGE:

- Over 50 (some authorities state over 40): In general, the longer we survive, the more medicines we have taken to assure continued survival. Also, as we get older, our bodies deteriorate. Medical disorders such as heart disease are more common with advancing age. In addition, the side effects of various medications can slowly creep up on us.

- The Very Young: The sad thing concerning this category is the very young do not have control of their own lives. Many times adults, without thinking, put children into dangerous heat situations. An example of this is locking a child in a closed car on a hot day while an adult shops for a half hour or so. This situation is often repeated by thoughtless pet owners.

ENVIRONMENT: Indoor or outdoor temperatures greater than 90 degrees F. or relative humidity greater than 60 percent present great risks.

SPORTS: Strenuous exercise on hot and humid days is dangerous to someone who is out of shape. A competitive drive in the wrong person at the wrong time could be fatal.

EMPLOYMENT: A workplace that is poorly ventilated and has high temperatures is dangerous for one's health.

MEDICATION: Certain drugs can make us more vulnerable to high temperatures. Examples are:

DIURETICS: These drugs increase the rate of urine flow by promoting a net loss of sodium ions and water from the body. Urination obviously causes a loss in fluid or body water. This along with high environment temperatures (perspiration) can lead to a state of dehydration.

ANTICHOLINERGICS: Included in this category are many over-the-counter sleeping pills, cold medications as well as atropine, belladonna, scopolamine, etc. In high doses these medications can induce disorientation, confusion, hallucinations, drowsiness, warm dry skin, fever, etc. They also decrease the flow of saliva.

Heat Disorder Comparisons

(This is what is usually present)

	Heat Cramps	Heat Exhaustion	Heat Stroke
Skin	Cool & moist from excess sweating	cool, clammy & pale	dry, hot, and flushed Ashen gray with shock
Pupils	Normal size	Dilated	Dilated
Body Odor	Normal	Normal	Offensive
Body Temp.	Within normal range to slightly elevated	Within normal range to slightly elevated or subnormal	Rapidly increasing rectal temperature greater than 104 F. (40 C.)
Pulse	strong & rapid	weak & rapid	at first rapid, later weak
Blood Pressure	Within normal limits for that person	low for that person	at first elevated, later low
Muscle Cramps	severe causing pain	Not present	Not present
Signs	Muscle twitching sometimes present Faintness Profuse sweating	Sometimes intense thirst and in others not; weakness, muscle incoordination, Delirium & coma in severe conditions	Central Nervous System dysfunction may be manifested as: seizures, confusion, delirium, disorientation unconsciousness. Stomach pains & headache also present at times
Severity	least severe	Could progress to heat stroke	Severe, a medical emergency

ANTIPSYCHOTIC TRANQUALIZERS: Large doses of these drugs may lead to somnolence, stupor and coma. Sodium depletion and polyuria (frequent urination) are adverse reactions that help deplete the body of fluid.

ALCOHOL: Alcohol is a sedative-hypnotic. High doses can lead to impaired psycho-motor performance and faulty judgment. These can be especially dangerous in an extremely hot or cold environment. We need our wits about us to survive in environmental extremes.

MISCELLANEOUS: Other contributing factors are: Obesity; Dressing in warm restrictive clothing on a warm, humid day; Restricting the fluids that are necessary to replace electrolytes lost by sweating, etc.; Lack of sleep and excessive fatigue; Physical or mental illnesses. Various medications used can have side effects that must be monitored; Vomiting and diarrhea that accompany many illnesses deplete the body fluids; Poor nutrition; Those with defective sweating mechanisms due to medical or congenital reasons; Acclimatization to heat usually results after 8 to 10 days of exposure to high temperatures. But be careful! This helps, but it isn't an absolute protection from heat disorders, especially if you fall into some of the above categories.

THERMOREGULATION: Our bodies normally product heat through the metabolism of foods we eat. The liver and skeletal muscles are also important factors since they are two organ sources of heat. This heat is used by our body to maintain a more or less constant temperature. Since

our parents first took our temperature when we were sick, the number 98.6 degrees or 99 degrees meant something. The average normal oral body temperature ranges between 96.8 to 99.3 degrees F. or 36 to 37.4 degrees C. If a rectal or vaginal reading is taken, then add 0.5 degrees C. or 1 degree F. to the above ranges. The normal axillary or arm pit temperatures is 0.5 degrees C. or 1 degree F. lower than the oral. Exact? No! This is partly due to a simple factor of time. The time of the day can make a difference in the temperature recorded.

A person's temperature is usually lowest in the early morning after a good night's restful sleep and higher in the late afternoon at the peak of his activity. In medicine very little is exact and temperature is no exception.

The proper body temperature is maintained due to the influence of a part of the brain. Thermo receptors throughout the body send messages to the brain where the hypothalamus or the heat regulating center of the central nervous system is located. Depending on the body's temperature, various body processes are set into motion which activate heat-gaining or heat-losing mechanisms to bring the core body temperature back to normal. All of this depends on the hypothalamus and thermoreceptors being intact.

An example of one of the many mechanisms the body uses to reduce a rising temperature is the process of sweating. The body can withstand high temperatures as long as sweating continues, and the water/sodium lost in the sweat is replaced.

Heat Disorders

In simple terms, this is one example of how the body copes with thermoregulation.

The next section discusses, compares and evaluates heat disorders.

HEAT DISORDERS:

HEAT CRAMP: This anomaly usually follows exercise and is the disorder causing

the least problems. It is characterized by painful spasms of the voluntary (skeletal) muscles. The muscles which are usually
(Continued on page 69)

Taking Vital Signs

BLOOD PRESSURE:

If you have the equipment and can take a systemic arterial blood pressure do it and record your findings along with the time. Blood pressure is a cyclic phenomenon and is measured in millimeters of mercury. The measurement is expressed as a ratio of systolic (as 120) over the diastolic (as 80). Therefore, a generally normal value can be recorded as 120/80 mm. Hg. This number is only a guide since factors as age, etc., dictate what is considered normal for a specific person. The high number or systolic pressure is the force with which blood is pumped when the heart muscle is contracting. The diastolic pressure or low number is the blood pressure level during the time that the heart muscle is relaxed between contractions.

General Technique: Evenly wrap a totally deflated cuff firmly around the arm with the lower margin of the cuff about an inch above the antecubital fossa. This is the bend opposite the elbow. Make sure that the center of the rubber inflatable bag inside the cuff is over the brachial artery.

While applying pressure to the radial artery with your second and third fingers, as you would when taking a pulse, inflate the cuff to about 30 mm of mercury above that reading at which time the pulse disappears. Now slowly deflate the cuff while both fingers are still compressing the radial artery. When the pulse again reappears, this reading is known as the Palpatory Systolic Pressure.

With a stethoscope, press its bell or diaphragm over the brachial artery located in the antecubital fossa just below the cuff. Now inflate the cuff about 30 mm of mercury above the level that the radial pulse disappears. Now gradually deflate the bag. When you hear a beating, remember it since this is the systolic pressure reading. Continue to deflate the cuff until the beating disappears, which is the diastolic

pressure reading. You just took the auscultatory blood pressure. Easy!

PULSE:

Again, this is a number that can vary from person to person. A normal rate can be 50 in a young athlete. Generally, a normal adult rate is 60 to 80 beats/minute and the rhythm regular.

Technique: Palpate or compress the radial artery under your second and third fingers while counting the beats for a minute or 30 seconds and multiply by two. While doing this, note whether the beats against your fingers are strong, weak, regular, or irregular.

RESPIRATIONS:

Normally this is 16 to 20 respirations per minute in an adult. In late childhood, 15 to 25 and 20 to 40 in early childhood.

TEMPERATURE:

Technique: Lubricate and insert a rectal thermometer about one and one-half inches into the anal canal. After three minutes note and record the reading. Be careful that the patient doesn't roll over and break it. You obviously don't want to hurt a patient when trying to help him so play it safe and never leave unattended someone you are examining, evaluating or administering first aid to.

READINGS:

Temperatures do vary with the time of day when they are taken. Oral: 96.8 to 99.3 degrees F. or 36 to 37.4 degrees C. Rectal: 97.8 to 100.3 degrees F. or 36.5 to 37.9 degrees C.

SURVIVAL QUARTERMASTER



FOUR SEASON SURVIVAL KIT

This kit contains the necessities for personal survival in a compact belt pouch. Excellent for all terrains, this Survival kit will cover your Emergency needs in various weather conditions, and in surviving a disaster, or assist you in escaping a captor. Over 40 survival items packed in a tough Camo nylon belt pouch.

Q75-88 Regular Price \$39.95

Special \$34.95

GARGOYLES... SOLAR EYE ARMOR

The world's most advanced solar eye Armor. Poly carbonate tough. Four times the impact strength of Aluminum and fifty times stronger than glass. Can withstand a 12 gauge shotgun blast from 15 yards. Gargoyles also block 83% more wind and glare and 100% of harmful ultraviolet rays.

Gargoyles wrapback lens design provides 210° of crystal clear vision. If these glasses look familiar, you may remember them on Clint Eastwood in "Sudden Impact" and Arnold Schwarzenegger in "The Terminator." Included with each Gargoyles is a hard plastic case bonded to a tough Cordura nylon outer shell with Velcro closure and 2" belt slots.

Available in Lunar Grey, Bronze, or Amber. All come with hard case. Q81 Regular Price \$59.95

Special \$49.95

PARA'S BATTLE KNIFE

Actual survival issue to the famed British Parashute Regiment by the MOD. Developed for rugged worldwide survival and rescue conditions. Features one solid piece of carbon steel that is almost 7/8" thick at the back with machine style notched handles for a solid grip. You can pry, dig, crush or chop without fear of snapping the blade. Overall length 12", blade 7". Leather notched sheath included. Made in England.

Q72-26 Regular Price \$43.95

Special \$44.95

GENUINE U.S. ARMY JUNGLE BOOTS

These are the hard to find U.S. Made MilSpec Quality Jungle Boots that proved themselves so well in Asia and South America. Constructed of the finest 00 Nylon and Cotton Duck available, this Jungle Boot is great for hot and wet weather use. A spike-practical, two midsole and the famous "Panama" mud-reversing sole and heel make this one of the most practical boots available. Available in Regular and Wide in both half and whole sizes from 5-13.

Q89-99 Regular Price \$49.95

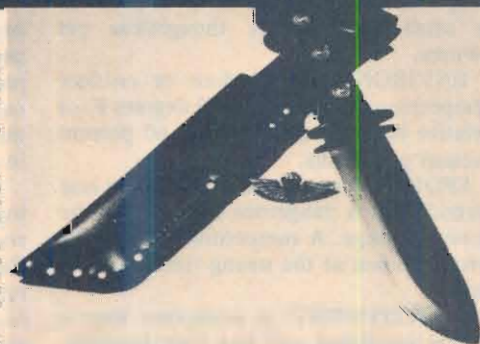
Special \$44.95

QUARTERMASTER

MILITARY EQUIPMENT

Dept. SG 750 LONG BEACH BLVD.
LONG BEACH, CA 90813

Include \$3.50 shipping charge per order. 120 page catalog-\$3.00/FRSE with order.



SI

SURVIVAL, INC has been a leader in emergency preparedness for over 18 years. All of our products carry a 45 day money back guarantee (details available). Years of practical knowledge is combined with volume buying to provide value for our customers.

MALAYSAN COMBAT PACK SURPLUS-NEW



Large Cargo pocket that has moisture proof collar to cover supplies. Two inch wide webbed nylon adjustable shoulder straps for maximum comfort and wear. There is a mess kit pouch on the outside. Reinforced flap with tie down straps to cover and pack. There is double stitching throughout to guarantee many years of rugged service. The pack measures 12" tall, 10" wide, 5" deep. The mess kit pocket measures 6X6X3. Perfect size for a large day pack or an overniter. Olive drab in color #0430

SPECIAL \$16.95+2.00 S&H
2 packs \$30.00 ppd.

MADE IN
1943



U.S. WWII
COLLECTABLE

STAINLESS STEEL CANTEEN

The real thing. We have secured a limited supply of what is considered by many to be a collectors item. They are in excellent condition but don't wait we don't know if we are ever going to get more. A special deal, canteen with used excellent OD cover Belt Holder. #0508

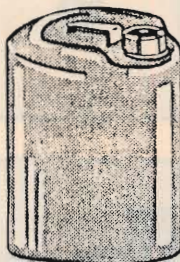
LIMITED SUPPLY
CANTEEN WITH COVER- \$12.95+1.50 S&H
LIMIT TWO PER CUSTOMER

New Five Gallon Water Storage Containers

For the price of used ones

Made of heavy grade plastic, the containers are 12" diameter, 16" high and are built to stack. Add to this a tight fitting removable 2 1/2" bung cover with standard 1" spigot hole, well shaped carrying handle and D.O.T. rating and you have what we feel is the best small storage container made. For those who are not familiar with what D.O.T. stands for, it is Department of Transportation and to receive a D.O.T. rating the container must be able to withstand a drop from a given height when full without bursting. #0250

5 Gallon containers \$9.95 + 2.50 S&H
3 for \$24.00 + 5.25 S&H
6 for \$45.00 + 10.00 S&H
20 for \$140.00 + 27.00 S&H



U.S. MILITARY COMBAT RIG



You get a full webbed gear combat harness for only \$29.95 plus S&H. All the equipment is used, with some fading, but is in excellent condition and will give years of use. **Rig includes:** Pistol belts, two 30 round M-16 ammo pouches, first aid pouch, 45 ammo pouch, canteen and cover, and combat suspenders. The used equipment tends to be quieter, does not stand out against clothing and makes it look like you know how to use it. Fully adjustable for all sizes and can easily be added to. #2853

Special \$29.95 + 3.00 S&H

MRE Retort Pouch Sample Pack

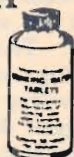


SPECIALLY PRICED

Here is your chance to try a wide variety of our high quality MRE Retort Pouch items at a special low sample price - and if you do not like them we send your money back! You get eight main course entrees - two of them the new 8-ounce size from the 1986 contract. The bakery items include six cakes, two cookies and two brownies. From the adjuncts you get two applesauce and two beans with tomato sauce. If you were to buy these in a retail store you could pay up to \$46.00. Even our regular special prices would set you back about \$26.00. #R801

Sample Pack Special \$15.00 + 3.00 S&H
Limit 2 sample packs

U.S. MILITARY Water Purification Tablets:



These high quality iodine based water purification tablets are available because of a surplus contract. They are sealed in bottles of 50 tablets. Enough to purify 50 quarts of suspect water, even water from puddles. They are U.S. made and packaged for long-term storage. Commercial tablets are regularly \$3.95 ppd. 48 states. #1922

10 Bottles
\$10.00 ppd.

A New Aladdin Lamp



WITH FUEL

Made especially by Aladdin for emergency use, this lamp does not feature the Aladdin mantle-instead they use just the round wick. This gives much better light than the old flat wicks, burns cleaner and with little smell. Included also is a quart of Aladdin's special fuel that has a pleasant odor when burning. Keep some of these around when there is a danger of power outage. The lamp burns much cooler than the mantle type Aladdins.

#4230 reg. \$39.95 + 3.00 S&H
Special Til July 30
\$21.95 + 3.00 S&H
2 lamps \$40.95 ppd. 48 states

4 Pocket O.D. Fatigue Pants

Could be the best value going in a useful outdoors pant. Used/excellent condition, medium weight cotton, button fly with flap cover. 2 button flap pockets on the rear. Perfect for hunting, camping work or play, and have found them to be very comfortable for just kicking around in. Women love them for working around the house and yard. The same pant sells in surplus and camping shops for \$20.00. These are all in number one condition with no stains or holes. #0517

sizes 27-36 only

S.I. Price 9.95 + 1.50 S&H
2 pair \$18.00 ppd



4 Pocket O.D. Fatigue Shorts



These shorts are of the same quality and style as the above pants. The only difference is of course the length! #0494

Special \$5.95 + 1.50 S&H
3Pair \$15.00 ppd.

SI

Survival, Inc. 18239 Figueroa Ave., Gardena, California 90248
(213) 324-8855 * Outside California (800) 533-7415

Prices Good Until Aug. 30
Send \$2.00 for 12 month
Subscription to Newsletter

Active, Passive:

Night Vision Devices

The cloak of darkness is vanishing for those who have used the night to hide in . . .

By Duncan Long



Hydra Systems' Stingray Mk5 Laser mounted on an AR-15.



Ecalibur's AN/PVS-2 on an AR-15 Sporter I. Note special mount.

TODAY, modern electronics can actually help you to "see" as well in darkness as you do during the day. These scopes work well but do have some limitations: these scopes are expensive and are nearly useless in daylight and some—because of their size—are slow to bring into play and awkward to carry. Too, night vision equipment will often temporarily ruin the user's night vision in the eye(s) involved in sighting through the equipment. Finally, a night vision device has a glowing screen which can be seen for long distances if the rubber eye shield isn't used properly. Most owners of night vision equipment find that these problems are not hard to live with in return for being able to see in the dark, however.

Two types of night vision devices are available on the market, passive and active. Active devices use some sort of beam to illuminate objects seen. Passive devices use available light. Both types of devices come in a variety of models from rifle scopes to night vision goggles and hand-held units.

For many, the night vision rifle scope is the first choice of equipment. You should plan on a lot of gunsmith work if you have any rifle other than standard military issue. In the U.S. "off the shelf" night vision scope mounts are only available for some types of rifles—generally the M1-A1, M-14, and AR-15 are the easiest rifles to mount night vision scopes on. A.R.M.S. manufactures an M16 universal scope bases which are also useful with AR-15 rifles as well as bases for the HK91/93 and FN-FAL rifles. They allow the user to switch from standard telescopic scopes to night vision equipment without a lot of hassle. Another useful accessory for use with the rifle scopes is the Cheekpiece from Cherokee Gun Accessories which will help the shooter get a proper cheek weld with his weapon.

Many night vision devices are classified with the Joint Electronics Type Designation System code which—once you get the hang of reading it—can give you a lot of information about the device you're studying.

The coding system usually has an "AN" prefix standing for "Army-Navy." This is followed by a group of letters which may include: "T" (Transportable—a large, bulky unit), "A" (Active system unit—probably using an infrared light source), "V" (Visible light spectrum—usually a passive unit), "S" (weapon's Scope—made for rifle or other weapon mounting), and/or "P" (Portable—relatively lightweight). Numerals designate the model in the series with a letter following the number being used for later improved versions of the same model. Thus, an AN/PVS-3B would be the Army-Navy Portable Visible-spectrum Scope-mounted Model 3 (improved version) night vision device.

Active devices date back to World War 2 when both sides started equipping special troops with night vision equipment. The U.S. created the infrared M3 Sniper-scope and the Germans fielded the Vampir sight.

With the use of solid-state electronic parts active night vision devices are a lot smaller than the WW2-vintage scopes but still are slightly heavier than passive devices and have smaller ranges because they supply their own source of infrared light to illuminate the viewing area. The infrared light and the optical system that turns the reflected infrared light into a visible image both eat up a lot of battery power which means batteries are often heavy and don't last as long as those on passive systems. Too, high levels of ambient light, fog, or rain can greatly degrade the viewing range of active devices. The biggest drawback, however, with active systems is the fact that they can be seen by anyone with either an active or passive night viewing scope.

Active equipment is less expensive than passive equipment and is well suited for some types of use such as with goggles for drivers whose vehicles are equipped with infrared headlights.

The thermal or infrared band used by active systems is actually the same as radiated heat. Thus, anything that gives off heat can—in theory—be seen with a thermal imaging system more sophisticated than those of the active units. Such a device could "see" through a flimsy cover of vegetation perhaps up to 10 yards into an edge of a wooded area. Though not cur-

(Continued on page 54)



ABOVE—Varo's AIM/G2-3 Goggle Weaponsight System is a hybrid that combines the aiming mount on the rifle with night vision goggles.



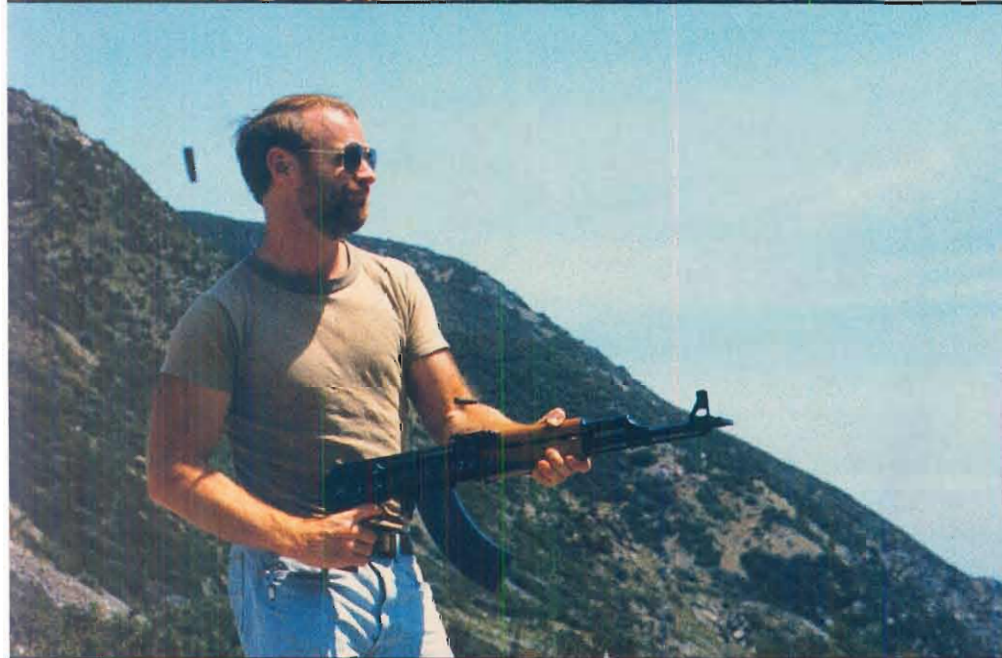
ABOVE—Varo's night vision goggles allow hands-free vision in the dead of night.

LEFT—Varo's handheld surveillance system for observation or photography.



LEFT & LEFT BELOW—Besides being quite accurate, the folding stock model AK-47 from Mitchell Arms that was tested functioned reliably and was easy to use with the stock either extended or folded.

BELOW—The stock can be folded or extended quickly without removing the 30-round magazine.



The unique muzzle break of the AK-47.



The test AK-47 is shown here next to a surplus communist bloc SKS semi-auto rifle. Weapons like these were used by communist troops in Vietnam.

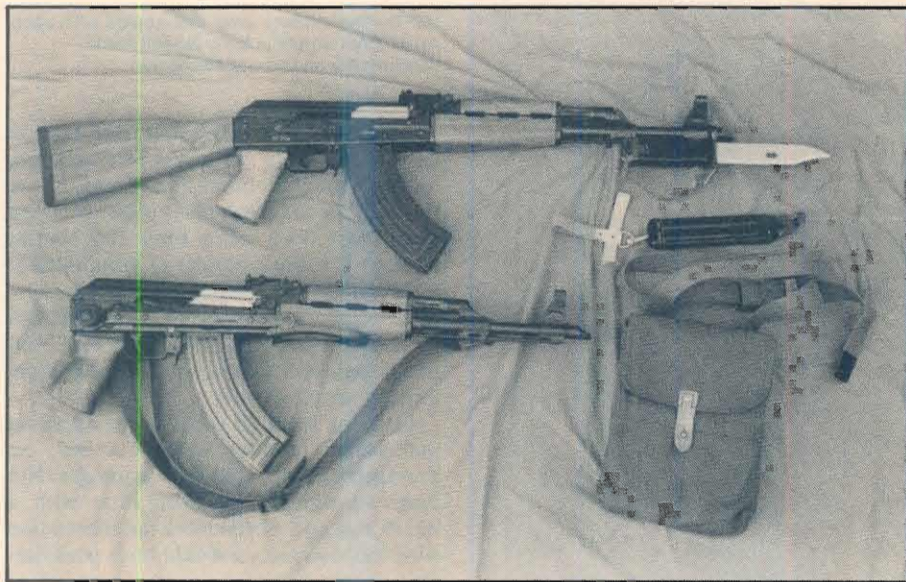
Rugged, Reliable, Accurate:

Mitchell Arms

AK-47s

Manufactured in Yugoslavia to Soviet military specifications . . .

By Jim Benson



The fixed- and folding-stock AK-47s from Mitchell Arms with optional bayonet with scabbard and hanger, and four-pocket magazine pouch.

THE AK-47 assault rifle (*Avtomat Kalashnikova 1947g*), its descendents and variants, are undoubtedly the most widely used and best-known military shoulder weapons in the modern world.

The simplicity, ruggedness, reliability and effectiveness of the Kalashnikov family of assault rifles and light machine guns have been proven in many parts of the world and an estimated 30 to 50 million of these weapons have been produced since they were introduced, in the form of the AK-47, in 1947.

Mitchell Arms, Inc. of Santa Ana, California, is now importing a number of beautiful new AK-47 weapons which are military quality in every respect except that they are semiautomatic and conform to U.S. laws and import regulations.

The first of this new generation of AKs, manufactured in Yugoslavia to Soviet military specifications (except for semiauto parts), are chambered for the original Soviet 7.62 x 39mm cartridge, which is becoming popular in the U.S. and which is available from a growing number of U.S.



Standard accessories that come with each fixed- or folding-stock AK-47 from Mitchell Arms are military sling, plastic military issue gun oil bottle, container with cleaning brush and patch holder and cleaning rope. The container for cleaning brush and patch holder also serves as a T-handle for cleaning rod stored under the barrel.

and foreign ammunition manufacturers. Coming soon will be Mitchell Arms Yugoslav-made AKs chambered for the 7.62 x 51mm and 5.56 x 45mm NATO ammunition.

Mitchell Arms is distributing fixed-stock and folding-stock AK-47s, and the heavy barrel "RPK-47" semiauto version of the light machine gun (also in 7.62 x 39mm) with finned barrel and detachable bipod.

Additionally, Mitchell Arms is import-

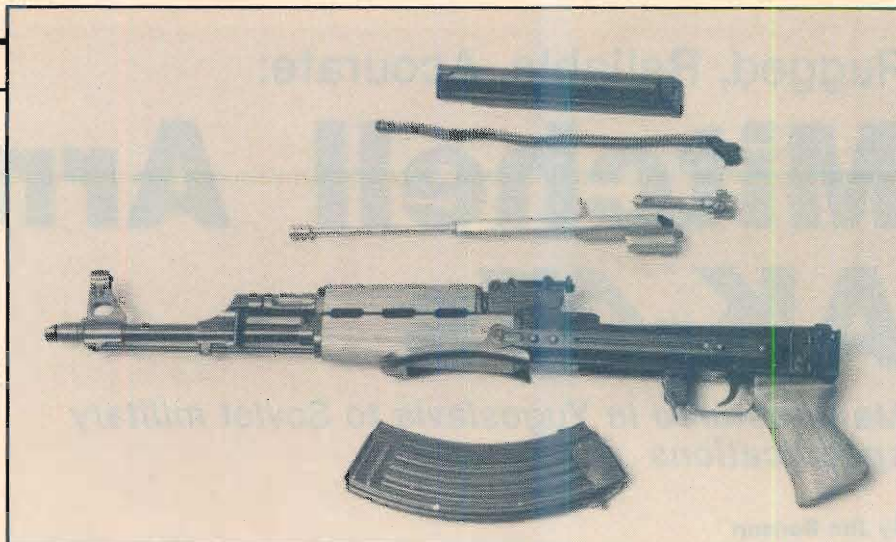


Besides the AK-47s chambered for the Russian 7.62 x 39mm cartridge such as the folding-stock model shown at bottom (shown with 30-round and optional 75-round drum magazines), Mitchell Arms will soon be importing AK-47s chambered for the standard NATO cartridges: 7.62 x 51mm, center, and 5.56 x 45mm, top.

Mitchell Arms AK-47s

RIGHT—Here the test folding-stock model is partially field stripped. With the turning of a lever next to the rear sight the gas tube and upper forend are easily removed.

BELOW—The fixed-stock model with its thick rubber butt plate is more comfortable for sustained firing from the shoulder.



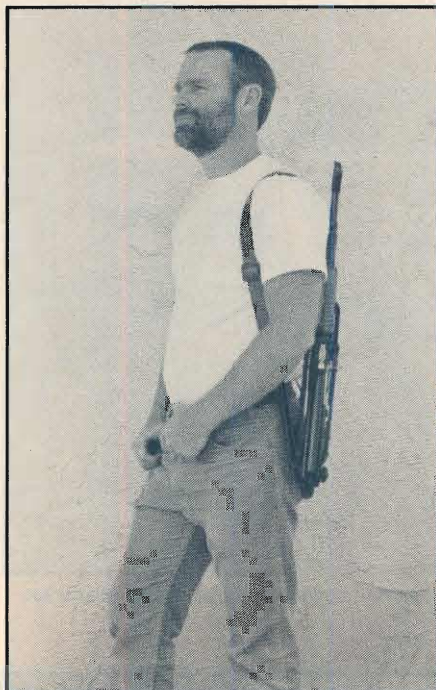
ing a Yugoslav countersniper semiautomatic rifle based on the famous Soviet Dragunov sniper rifle, the M-76 in 7.9mm caliber, and the M59 semiautomatic rifle, a version of the famous Soviet SKS rifle, in 7.62 x 39mm.

The AK-47s have real teak wood forends and butt stocks (except the folding stock AK-47 which features a steel folding butt stock). The wood buttstocks have thick rubber butt plates to cushion the shoulder when firing.

The rifles also have flip-up fluorescent night sights which are very effective in the dark.

Any of the AK models, including the RPK-47, can interchangeably use the standard 30-round steel magazines as well as optional 75-round drum magazines available from Mitchell Arms.

The staff of *American Survival Guide* was loaned an AK-47 folding stock model for evaluation from Mitchell Arms. We were, to say the least, quite impressed with its functioning and performance during our testing of it.



LEFT—The military sling that comes with each AK-47 from Mitchell Arms is well made, comfortable and easily adjustable.

Although there wasn't time, due to other commitments, to do bench-rest accuracy testing with this rifle, a friend and I took the AK to an outdoors public shooting range and fired more than 100 rounds through it using a variety of ammunition. We used Chinese communist military surplus hardball ammunition, some Finnish Lapua hardball, some American PMC full metal jacketed and some aged Egyptian military surplus stuff.

Shooting from 50 yards in the standing and seated positions without a rest, we averaged about 5- and 6-inch groups. Not bad, we thought, realizing that with a bench rest and a little more familiarization with this weapon we would have considerably tighter groups.

Of all the ammo fired through the AK, there were only a couple of malfunctions and these were failures to fire the Egyptian ammo, which also wouldn't fire in a com-bloc SKS rifle we were using at the same time. This ammo was just too old and or ineffective, we concluded.

All in all, the AK functioned flawlessly when fired in either the stock-extended or stock-folded modes. The folding stock evolved from military paratrooper models of this weapon and is intended for use in the close quarters of armored vehicles and the like. The stock can be quickly folded or extended without removing the 30-round magazine. It allows for compact storage and ease of handling in tight quarters, such as in the cab of a pickup truck.

The 7.62 x 39mm cartridge is a powerful one and produces a fair amount of recoil. The unique muzzle compensator on these weapons helps reduce muzzle climb. The hard metal butt plate is not as easy on the shoulder as would be the rubber butt plate of the fixed-stock model, but either model is equally capable of sustained and accurate fire.

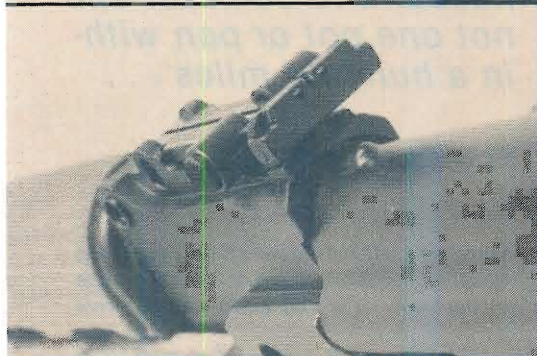
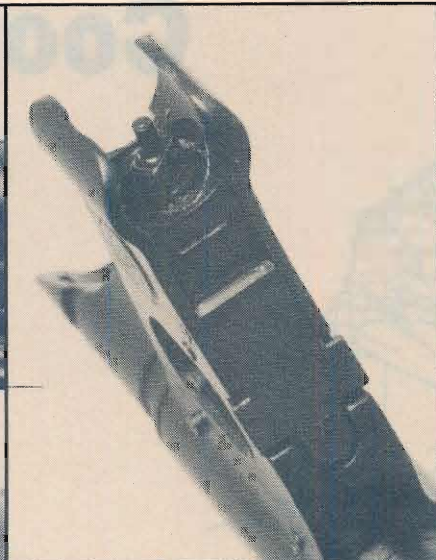
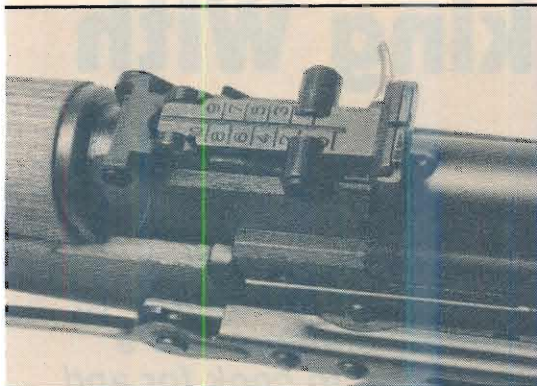
Accessories—Each AK-47 from Mitchell Arms comes with a cleaning rod stored

Mitchell Arms AK-47 Folding Stock Model: Tech Specs

Weight, with empty
30-rd magazine & sling 9 pounds
Length:
With stock folded 26 inches
With stock extended 35½ inches
Barrel 16¼ inches
Operation gas, magazine fed, semi-automatic, closed bolt
Caliber 7.62 x 39mm (Russian)
Sights Rear graduated to 1,000 meters, front post adjustable for elevation
Sight radius 15½ inches
Magazine capacities 30-rd detachable box, 75-rd detachable drum
Stock material Steel butt stock, teak forends and pistol grip
Finish Matte blackmetal parts
Price, suggested retail \$698
Importer/Distributor Mitchell Arms, Inc., Dept. ASG,
3411 Lake Center Drive,
Santa Ana, CA 92704;
(714) 957-5711



Optional bayonet and scabbard can be used as a wire cutter.



The rear sight is the AKM type graduated in 100-meter increments to 1,000 meters. Front post sight is adjustable for elevation. Spring-operated flip-up fluorescent night sights front and rear facilitate use of the rifle in low light levels or darkness.

under the barrel, along with another cleaning tool, a rope that has weighted ends and a woven center so that a small cleaning patch can be inserted in the woven section and pulled through the barrel after leading either end of the rope through the barrel. The rope is pulled back and forth through the barrel until it's clean. The patches are changed frequently until they come out clean, just as when using a cleaning rod.

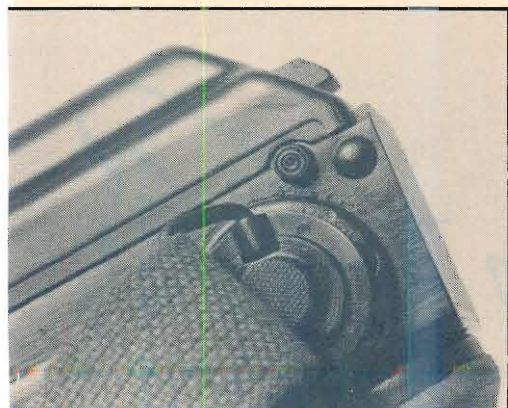
Also included with each AK-47 model is a metal container which serves as a holder

for the cleaning brush and patch holder as well as a handle for the cleaning rod, a military issue oil container which you can fill with your favorite gun oil, and a standard military sling for the rifle.

Optional accessories include spare parts and magazines, the 75-round drum magazines, a military bayonet with scabbard that together serve as a wire cutter, magazine pouch with shoulder strap and four-pockets for 30-round magazines, blank-firing attachment and the book *The AK47 Story*.

These AK-47s from Mitchell Arms are undoubtedly among the finest of this type available in the world—if not the finest. They are certainly the best we have come across. These are indeed powerful, smoothly functioning, simple to operate and accurate weapons. The 7.62 x 39mm (Russian) cartridge has a lot of knock-down power and these rifles are formidable weapons.

Beauty, ease and simplicity of operation, smooth functioning and very effective firepower. That's what you get with the Mitchell Arms' AK-47s. You couldn't ask for more. For more information, contact your gun dealer, or Mitchell Arms, Inc., Dept. ASG, 3411 Lake Center Drive, Santa Ana, CA 92704; (714) 957-5711. ●



Two spring-loaded plungers must be depressed to remove the receiver cover. The folding stock is extended by depressing the plunger under the rear sling swivel.

THE BALLISTIC KNIFE



...the Knife that Shoots! **\$99.95**
Complete Kit

The only one of its kind currently available in the free world. The Ballistic Knife is both a conventional knife and an innovative close range defensive system. It can be used as a thrusting rod, shot as a bolt (with sheath intact), used as a fighting knife or it can be fired up to an effective range of thirty feet. The typical penetration of this knife is about three times that of a manual stab.

*Attn. Collectors & Sportsmen: Though legal in parts form, in certain areas the completion of these kits may violate certain laws. Please check your area before ordering or assembling, as compliance with any such law is the purchaser's responsibility.

To order:

Qty.	Item	Total
1	Catalog	\$5.00
	Shipping	\$3.00
	TOTAL ORDER	

Form of Payment:

- ☐ Money Order ☐ Certified Check
☐ UPS-C.O.D. add \$1.90

Name (Print): _____

Address _____

Phone # _____

FRANK'S CENTER, INC.
P.O. BOX 530 - 127 W. CHERRY
NEVADA, MISSOURI 64772
PH. 417-667-9190 or 7975

PHOTO I.D. KITS



Only **\$4.99**

You can now produce a professional "plastic sealed" Photo I.D. in the privacy of your own home! We supply the blank cards, plastic lamination and simple instructions. You supply the photo. The result is an authoritative Photo I.D. that will amaze everyone!!

Choose From:

- Please ☐ Special Weapon Permit
Check ☐ Concealed Weapon Permit
Cards ☐ Registered Mercenary
Wanted ☐ American News Service
☐ Bureau of the Press
☐ Vietnam (CIA)

SPECIAL Any 3 for **\$11.99**

DEVIL'S BRIGADE

P.O. Box 315 Dept. S

El Dorado, AR 71730

Phone 501-862-4772

80 Page Catalog \$1.00 / Free with Purchase

Name _____

Address _____

Exp. Date _____

Charge Card # _____

- ☐ Visa ☐ Mastercard ☐ Money Order or ☐ Check

Cooking With Mud

Granny had a real dilemma on her hands: 13 hungry children and a husband to cook for and not one pot or pan within a hundred miles . . .

By Herbert H. Winters



Once the earth was loosened up she started splashing handfuls of water from the creek to the loose earth and made a fairly thick batch of mud.

Then she built a wood fire and let it burn down to glowing coals.

During the time the fire was burning down she had washed the catfish and parsnips and coated them completely with about one-half inch of the mud, next she laid the mud coated parsnips on the coals gently and individually placing them in rows, and in about 15 minutes on the coals the mud was hardened, and she turned the parsnips over to cook the other side. The parsnips took a little longer to bake than the fish. Next she placed the mud-coated fish gently and individually on the hot coals and baked them till the mud was hard enough to turn them over. The catfish were about two pounds each and she baked them for about an hour, turning them about every 10 to 15 minutes. When everything was done she took them off the coals and laid them on the ground away

I WAS extremely fortunate in my youth to be raised with a great-grandmother who lived to be 99 years young.

She and her family came across the country in a covered wagon from Pennsylvania to Iowa, and obtained a 160-acre homestead. There were more Indians than whites in Iowa at the time she and her family settled in.

She had 13 children and would often sit by the old wood burning stove and tell me tales of her travels and problems with the Indians. They built their log home and furnished it with the few belongings they had brought with them in the covered wagon. Pots and pans were of course very needed to prepare the game and greens foraged by her husband. They were in their cabin only three weeks when a band of 16 Indians on horseback rode up and forcefully entered the cabin. They took almost everything they had and left.

Great-grandma had a real dilemma on her hands: 13 hungry children and a husband to cook for and not one pot or pan within a hundred miles.

Ole Granny had to be and was extremely resourceful. That first day after the pots were taken her husband brought in some

catfish from a local stream and they had some parsnips, that were somewhat withered. That was the total menu for the day. Well Granny cleaned the catfish but left the skin on, then she headed down to the creek carrying all the catfish and parsnips in a tote sack. She layed down the tote sack at the creek bank and started to dig up some of the rich black earth with a stick about three feet from the creek bank.



from the fire for about five minutes to cool enough to place the mud hardened meal in the tote sack and carried it back to the cabin and her waiting hungry family.

Just outside of the front door she lined up her brood of children and gave each of them a clean single of wood. Then granny broke open the hard mud crust that the fish were baked in and the aroma of fresh baked fish permeated the air.

When she did break the hardened mud from the fish the skin came off with it and you had the beautiful clean white flesh of the channel catfish. Granny placed one whole fish on the shingle for each member of her family along with two parsnips. The parsnips that were withered were replenished with moisture from the mud cooking process, the mud was broken off revealing the steaming pure plump flesh of the vegetables.

Cooking with mud is clean. Quite a statement, huh? But it is true. You too may, sometime in your life, be confronted with a survival situation where you need to prepare food without cooking utensils, now you know how.

It might be fun to cook some potatoes and carrots or whatever next time you're out camping, sitting around the fire.

(1) To make mud the proper consistency is relatively simple, first you find earth by a river or stream, if one is in the area you're in, and dig it up loosely, then add water till

the consistency is sticky, so you can pack it around the item you intend to bake, and it stays on it.

If you happen to be in an area where there is no water, you might find a low ground area that could be dug down to a wet muddy level. I always carry a piece of clear plastic, 2½ x 2½ feet, folded in my back pocket, in case I have to dig a water solar collection hole. This is another way to get water to make mud with, if a natural water supply is not available. In sandy desert areas try to get your earth at the base of a cactus or tree, the build-up of dead plant life is more earth type than sandy and will provide a sticking mud.

(2) The mud pack around the item you intend to bake should be about ½-inch all the way around.

(3) The fire should be burnt down to a good bed of glowing coals.

(4) Place the mud packed item gently on the coals and bake 15 to 20 minutes or until the mud pack is hardened enough to turn or roll over to bake the item uniformly through without burning it. Sometimes I will cover the item getting baked with hot coals rather than turning it.

A potato will usually take 45 minutes to an hour depending on the size; carrots, parsnips, turnips, etc. about the same time. Small trout and warm water fish are delicious this way and take about 40 minutes.



(5) When the item is cooked, take it out of the coals and let it cool for about five minutes, on the ground, then remove your baked food. Breaking the mud crust off can be done by striking it with a rock or whatever is handy.

Granny was really great! ●

Order Now
For Summer Use

Save at Sierra and Spend the Difference

MEALS READY TO EAT

Current contract, all meals are fresh. Long storage life, if kept in cool, stable environment. 4 mil plastic outer bag; element proof. Does not require water to reconstitute. Weight is 1 pound per ration pack. Ration packs are slim profile, will not be bulky to carry. 1100 to 1300 calories per ration pack depending upon meal. Main entrée can be eaten out of the pouch, warmed up on a metal surface (car hood), heated in water etc. Excellent for hunters, survivalists, law enforcement personnel, backpackers, scouts, etc.

Per 10 meals/\$33.00 plus \$5.00 shipping, insurance and handling = \$38.00

Wholesale: 50 meals \$150.00 plus shipping

Shipping: \$15.00 West of the Mississippi River
\$20.00 East of Mississippi

Meal Selection:

Turkey
Pork
Beef
Beef Patties
Chicken
Beef Stew
Meat Balls
Frankfurters
Ham & Chicken Loaf
Ham Slices

(When ordering meals, send alternate menu choices or substitutions will be made as necessary.)



Ordering Instructions: \$10.00 minimum order. Send Cashier's Check, Money Orders. Personal Checks will be held until the check clears (min. 14 days). MasterCard & VISA accepted. No back orders, merchandise or refund sent promptly. No COD orders.

Send orders to: SIERRA SUPPLY, P.O. Box 1390, Durango, Colorado 81302, Ring (303) 259-1822 Dept. ASG

All items are totally guaranteed. 10 day return privilege. Merchandise must be in the same condition as was sent out. This ad supercedes all previous offers, ads and catalogues. For orders outside continental U.S., call or write for specific shipping costs.

Send \$1.00 for 1987 Catalogue.
Shop, Compare & Save at Sierra Supply

THESE ARE COMPLETE MEALS
Allow up to 3 weeks for delivery.

M16-Style Parts:

Non-Colt AR-15 Owners Beware

WHILE it currently involves only some owners of AR-15 rifles, there is a bureaucratic movement in the works which might ultimately be used in an attempt to remove many semiauto firearms from the hands of American citizens.

What's going on?

The first inkling of problems came with a letter sent out in 1986 to those who had purchased AR-15 rifles or rifle kits from Olympic Arms, Inc. (which also markets the same parts and guns under the company name of SGW). In the letter, D.A. Schuetz, the secretary/treasurer of Olympic Arms/SGW, wrote that "due to recent media pressure about automatics, the Bureau of Alcohol, Tobacco and Firearms has recently taken a tougher stance on what they consider 'a combination of parts' that make an AR-15 automatic . . . we are required to comply by instituting a recall."

So, no doubt at great expense, Olympic Arms/SGW sent out recall letters and did the work necessary to keep the weapons which they had sold within the new BATF guidelines.

When Olympic's recall letters reached the owners of the "automatic weapons," many shooters were undoubtedly shocked to learn that they owned illegal weapons—especially since the rifles fired only in the semiauto mode (one shot per trigger pull) and wouldn't fire in the fully automatic mode!

Just how did the BATF figure the AR-15-style rifles were automatic weapons?

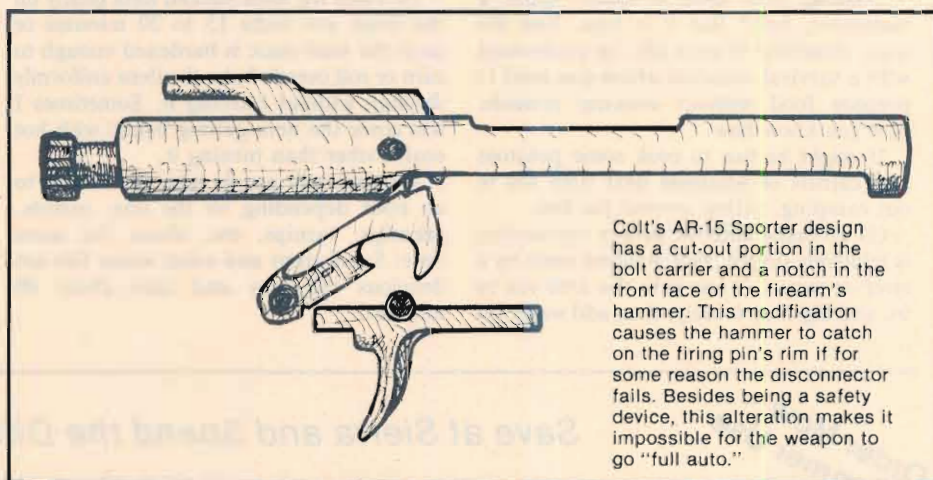
In a letter sent to Olympic Firearms (dated March 12, 1986), BATF explained the procedure, "The SGW . . . AR rifle . . . which was recently received from your firm was found to fire in the full automatic mode merely by removing the disconnecter."

This has chilling overtones for anyone owning a semiauto rifle or pistol since many semiauto firearms—both rifles and pistols—will fire in this type of "automatic mode" if the disconnecter is "merely" removed or altered.

It should be noted that at least some BATF agents were aware of the fact that many AR-15 style rifles built with M16 parts would malfunction in this manner. In 1985, while working on my book, *The AR-15/M16: A Practical Guide* for Paladin Press, a BATF agent told me that AR-15 rifles made using military-style parts would fire in an automatic mode if the disconnecter were removed from them.

The Bureau of Alcohol, Tobacco and Firearms has recently taken a tougher stance on what they consider 'a combination of parts' that make an AR-15 rifle an automatic . . .

By Duncan Long

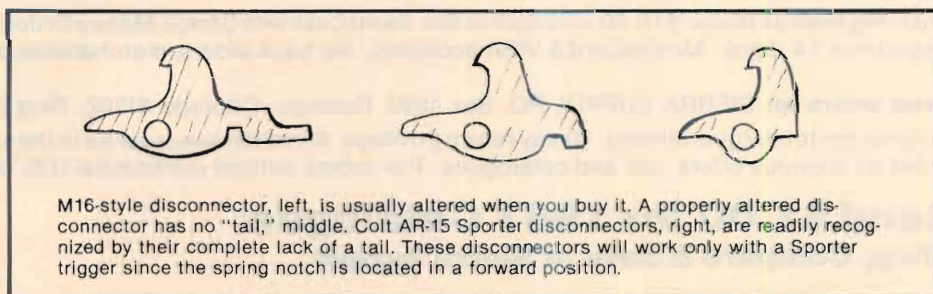


I asked, "Does that mean that all those rifles which have been built with M16 parts are illegal?" I failed to get a definite answer at that time. Why BATF waited for over a year to take action on what they now consider to be illegal automatic weapons is a bit of a mystery. It IS good that BATF has considered the problem to be a mistake rather than an attempt to break the law and has given owners of the weapons a chance to have their rifles "repaired" rather than confiscated.

Why aren't criminals taking advantage of this and making lots of illegal automatic weapons? Because this type of automatic fire is **EXTREMELY** dangerous and unreliable. The alteration is of use only if the shooter is interested in blowing up a firearm!

The reason for this is that when the disconnecter is removed from an AR-15 (or a number of other semiauto guns), the hammer will then follow the bolt forward if the trigger is held back rather than having the disconnecter engage it. If the round chambers smoothly and the weapon is clean and worn in, the hammer will often have enough force when it slams into the firing pin to actually ignite the primer and fire the cartridge. Thus, the weapon will fire a number of times as long as ammunition is in the magazine and the trigger is depressed so that the hammer is free to follow the bolt forward during the firing/reloading cycle.

The danger is that if the cartridge hangs up or has a primer with a thick case, the primer may not ignite quickly enough to



fully burn the powder in the round. This would cause a hang fire or a misfire which leaves a bullet in the barrel.

A hang fire is dangerous since the cartridge may fire seconds after the hammer hits the primer. The gun may be pointed the wrong way when the cartridge finally fires and—in the case of a weapon in the auto mode—a string of surprise shots may suddenly occur. If the cartridge is ejected manually from the gun before the hang fire ignites fully, the case will explode and shower the area with brass shrapnel. Either way, careless gun handling can make a hang fire a very dangerous occurrence.

Even more disastrous—at least for the firearm—is the potential of a bullet, and perhaps some unburnt power, being lodged in the barrel. This could occur if the primer is not hit hard enough to fully ignite. When this happens, a second shot—which could take place during the auto fire sequence—will create enough pressure inside the barrel to split it apart. Such an explosion can be severe enough to break ear drums and the bits of flying metal can cause large wounds and blindness to the shooter or those near him.

Even if a modified gun wasn't "blessed" with a hang fire or explosion, the gun would cycle so quickly that it would be nearly impossible to control. In short, NO ONE in their right mind removes a disconnect in order to achieve full-auto fire in a

semiauto rifle or pistol.

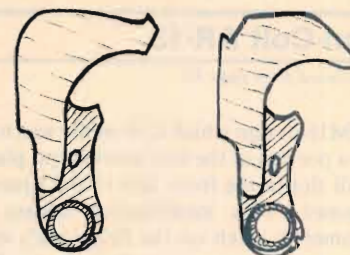
BUT BATF doesn't need to prove that the full auto mode works well or safely or with all types of ammunition. This is as it should be since, otherwise, it would be nearly impossible to remove illegal weapons of various types from the hands of criminals.

The Catch—The legal catch comes in as to whether the firearm is "easily modified" to fire in the auto mode and whether or not the weapon is actually "any combination of parts from which a machine gun can be assembled." And BATF maintains that the AR-15s which can fire in the slam-fire mode are machine guns.

The precedent of REMOVING parts to achieve auto fire is of concern to non-AR-15 owners since most semiauto weapons can be made to fire in the automatic mode when parts are removed. And if the idea is taken one step farther, to the "easily altered" idea, then nearly all semiauto weapons can fire from this dangerous auto mode if parts are altered on a grinding wheel—which is readily available in most home shops.

John Browning made his first automatic rifle from a lever action rifle.

It IS a mistake to think that BATF agents are the culprits here. Rather than paint BATF as the bad guys, it should be remembered that BATF is only one of the enforcement arms of our legal system;



The M16-style hammer, left, should have the rear "hook" ground off it and the small—and important—indent ground into its face. While the angle of the new indent isn't critical, care must be taken to get it as close to that shown as possible so that it will function properly. Properly shaped hammer is shown at right.

BATF is only enforcing the laws as they see them. What needs to be done to head off this legal precedent is a clarification of the laws which determine what an automatic firearm is.

At any rate, Colt Firearms seems to have "headed off" the BATF in the AR-15 "Sporter" design from the very first. The Colt design—which must now be adopted by those who wish to keep their non-Colt AR-15s (or Colt AR-15s with M16-style parts) legal—will not fire in the slam-fire auto mode even if the disconnect is removed.

The alternation in the basic military AR-
(Continued on page 32)

They're Here!

Yugoslav AK-47's

Made in Yugoslavia For Mitchell Arms

These are standard AK-47's in every respect except they are semi-auto and conform to U.S. laws and import regulations

• Made in the original 762X39



Flip-Up Night Sights

- Parts and Service readily available
- 75 Round steel drum magazine available
- Backed up by Mitchell Arms

HEAVY BARREL R.P.K. 47

Heavy AK-47 action in semi-automatic.



Joy Mitchell shown holding an AK-47S in 762X39 with folding stock and 75rd drum magazine

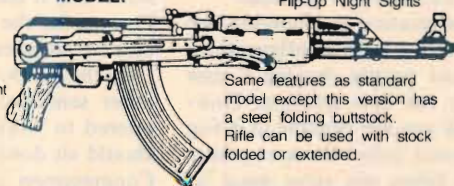


AK-47 FOLDING STOCK MODEL!

Flip-Up Night Sights

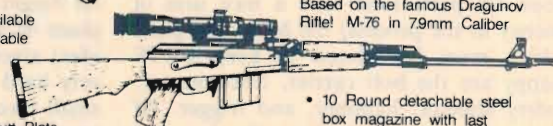
Features:

- Heavy, finned barrel
- Heavy Forend
- With or without Bi-Pod, folding and detachable
- Fully adjustable day or night sights



Same features as standard model except this version has a steel folding buttstock. Rifle can be used with stock folded or extended.

Rubber Butt Plate (Sure-Grip Non-Slip)



COUNTER-SNIPER SEMI-AUTOMATIC RIFLE

Based on the famous Dragunov Rifle! M-76 in 79mm Caliber

- 10 Round detachable steel box magazine with last round hold-open
- Full military quality
- Special Match Ammunition available

M-59 SEMI-AUTOMATIC RIFLE... An excellent likeness of the SKS Rifle made in Caliber 762X39



- Walnut stock
- Gas-operated
- Fully adjustable sights
- Full military quality

Mitchell ARMS

MITCHELL ARMS, INC.

2101 East 4th St., Suite 201A, Santa Ana, CA 92705
Phone: 714/957-5711 TELEX 880126

Non-Colt AR-15

(Continued from page 31)

15/M16 design which Colt made was to cut out a portion of the bolt carrier and place a small slot in the front face of the firearm's hammer. This modification causes the hammer to catch on the firing pin's rim if—for some reason—the disconnecter fails. In addition to being a safety device, this alteration makes it impossible for the weapon to be made to fire if the disconnecter is altered or even removed.

How do you protect yourself if you have an AR-15-style weapon with a few M16 parts in it?

Currently, BATF is taking a very lenient and—all things considered—fair attitude toward the parts and allowing owners to convert them to "AR-15 configuration." These changes are fairly simple and most can be carried out on pretty crude equipment. If you are capable of doing such work yourself, the only household tools you'll need are a bench grinder (the metal parts are too tough for a file) and a soldering torch along with an assortment of drift punches, screwdrivers, mallets, etc.

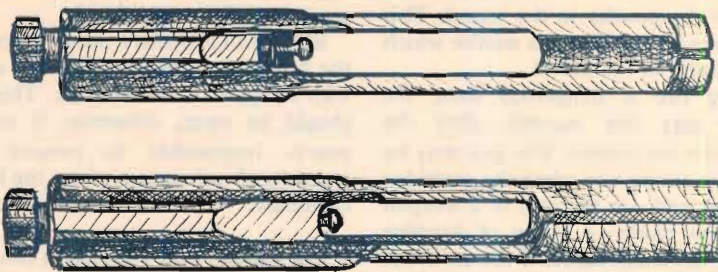
There is, however, always an element of danger in altering gun parts. If you're not sure of what you're doing, DO NOT DO THE ALTERATIONS YOURSELF. Get the work done by a competent gunsmith or buy new parts. Saving a few dollars isn't worth risking human lives if you end up with an unsafe firearm.

If you elect to simply replace the parts with those of the "newly legal" configuration, the parts are available from a number of companies including Olympic/SGW, Dept. ASG, 624 Old Pacific Hwy. S.E., Olympia, WA 98503 (206) 456-3471; and Sherwood International, Dept. ASG, 18714 Parthenia St., Northridge, CA 91324 (800) 423-5237. Simply order the new parts, have a gunsmith replace them (if you can't do the work yourself), and "deep six" the old parts. You don't want to keep unaltered parts since things could get sticky as to ownership if such "illegal machine guns" in the near future.

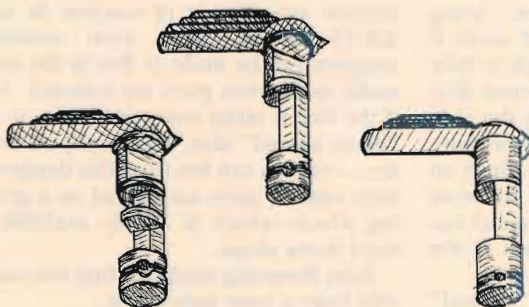
Converting—If you decide to convert your old parts (and save a nice sum of money in the process) the M16-style parts which must be altered to keep BATF happy are the bolt carrier, disconnecter, safety/selector, hammer, and trigger. Of these, the most critical are the hammer and bolt.

The lower receiver parts are removed by drifting out the pins holding them in place. Take care not to lose the small spring under the disconnecter and note the spring placement on the trigger and hammer.

The disconnecter is generally altered when you buy it though a few have been sold in the past without the change having been made. A properly altered disconnecter has no "tail." As shown in the illustration, all that needs to be done is to grind off the tail up to the spring cut.



The M16-style bolt carrier, bottom, might be changed to the AR-15 configuration, top. The metal below the rear of firing pin must be removed from the M16-style carrier. Once this is accomplished, the front notch which has been cut into the hammer can then engage the rear rim of the firing pin if the disconnecter fails or is removed.



On the M16-style selector, left, the small step or notch in the center of the bar must be removed. Take great care not to alter any other of the faces of the selector since doing so might cause the "safe" position to fail. The properly altered M16-style selector, center, looks different from the Colt Sporter selector, right.

When grinding off the tail of the disconnecter or grinding on any of the parts, be sure to keep the temperature of the metal low. Letting the part heat up can destroy its tempering and greatly reduce the life and safety of the firearm the part is used in.

The M16-style hammer should have the rear "hook" ground off it and the small—and important—indent ground into its face. While the angle of the new indent isn't extremely critical, care must be taken to get it as close to that shown as possible so that it will function properly.

On the selector, the small step or notch in the center of the bar must be removed. Take GREAT care not to alter any other of the faces of the selector since doing so might cause the "safe" position to fail.

The trigger should have a small piece of metal soldered over its rear end so that it is no longer open. Silver soldering a small piece of metal into this opening is most ideal since silver solder makes the piece very hard to remove. When soldering the small piece of metal over the back of the trigger, take great care not to allow the rest of the trigger, especially the front edge that connects to the hammer, to overheat.

The hardest alteration is changing the bolt carrier to the AR-15 configuration. Frankly, for most people, buying a new bolt is probably the best solution. However, if you think you are capable of doing the work, the metal below the area where the rear of the firing pin rides must be removed. Once this is accomplished, the front notch which has been cut into the hammer can then engage the rear rim of the firing pin to lock the bolt open if the

disconnecter fails for one reason or another. Currently, BATF does not seem to be requiring that the rear cut-out of the M16-style carriers be removed. To really be on the safe side, however, you may wish to go ahead and grind off this lower rear portion as well.

To test the alterations, remove the magazine from the AR-15 and check the chamber to be sure it's empty. Place the selector into its "fire" position. Pull the charging handle back and—while still holding it—ease it about halfway forward. While holding the bolt/bolt carrier halfway open, pull the trigger (you should hear a slight click as the hammer falls). Now, release the charging handle. The carrier should lock open if the alterations have been made properly. To free the carrier, pull the charging handle back and release it. The bolt carrier should go fully forward.

Altering these is a lot of work and/or expense for you if you own an AR-15 with M16-style parts (and don't forget to check to be sure the parts are changed if you're buying a non-Colt manufactured rifle). But having the right parts in an AR-15 is worth it if it means that you can keep your firearm for the time you may need a firearm for an emergency or for self protection.

In the mean time, perhaps those owning other semiauto firearms, which can't be altered to "lock up" if a part is removed, should sit down and write a letter to their Congressmen asking for some more legal protection to be extended to gun owners.

Otherwise, when you need your semiauto rifle or pistol, it may be in the hands of a government agency rather than yours!

LEARN THE ART OF NINJITSU WEAPONS TRAINING! BUTOKUKAI OFFERS THE ONLY COMPLETE WEAPONS TRAINING COURSES AVAILABLE. EACH COURSE COMES WITH TRAINING WEAPONS AND A STEP-BY-STEP, SELF-TEACHING MANUAL. WITH DEDICATION AND A SMALL INVESTMENT YOU TOO MAY LEARN THE WAY OF THE NINJA.



NINJA SHURIKEN COURSE

The information is authentic and accurate in every detail, taken from the teachings of the Ninja past/present. You will receive a copy of *Throwing the Ninja Star of Death*, a specially designed soft Ninja star, and a Ninja Shuriken. Learn the deadly art of Shuriken-jitsu from the Ninja masters of weapons, espionage, and assassination. Instructions are given for manufacturing Shuriken and special Ninja training target. Throwing and hand-to-hand combat techniques are presented. Defense against the Shuriken, and much more. 5" x 8", softcover, illus.

SC \$9.95
WEAPONS INCLUDED—NOT SOLD IN CANADA



NINJA COURSE

Finally—a proven, instant self-defense system that will guarantee your ability to defend yourself against aggressors without going through years of formal martial arts training. In addition to the book *Ninja—Instant Wipeout!* you will receive 2 specially designed Ninja weapons. As an extra bonus, you will receive, free of any additional charge, 2 genuine leather weapon scabbards, enabling you to be protected at all times, even while sleeping. More than one American family has already used this system successfully to protect him or herself from bodily harm.

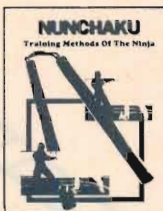
NC \$9.95
WEAPONS INCLUDED—NOT SOLD IN CANADA



NINJA NUNCHAKU COURSE

Learn how the Ninja use the Nunchaku with the most effective techniques ever revealed. From basic maneuvers to advanced you will learn with accuracy the safe effective use of the Nunchaku. Blocking, striking and self-defense techniques are all covered in the completely illustrated manual. Along with the manual, *Nunchaku, Training Methods of the Ninja*, you will receive a pair of shock absorbing foam padded practice Nunchaku. If you have ever had the desire to learn the correct usage of the Nunchaku, this course is a must!

NNUN \$9.95
WEAPONS INCLUDED—NOT SOLD IN CANADA



NINJA KNIFE THROWING COURSE

This is the only modern authoritative text on Ninja knife throwing which exists today. Train safely with live opponents. Every facet of knife throwing is covered, from the selection of throwing knives, to carrying and concealment and even the treatment of knife throwing injuries. Combat tactics, exploding knives, poison knives, flaming knives, blinding dust knives—everything that a modern Ninja needs to learn about knife throwing is contained in this well illustrated, easy to follow training manual. Three throwing knives included.

NKTC \$9.95
WEAPONS INCLUDED—NOT SOLD IN CANADA



ADVANCED HOMEMADE FIREWORKS

Learn to make fireworks at home that really work. Advanced Homemade Fireworks covers in detail how to make skyrockets, pin-wheels, roman candles, aerial bomb shells, fountains, cherry bombs & M-80's. Complete explanation of each chemical & its use makes the manufacture of homemade fireworks easy for even the novice. A must for anyone interested in homemade pyrotechnics.

B-103 \$8.00



EXP. HAND GRENADES By G. Dmitrieff

A comprehensive guide to the design and construction of both fragmentation and incendiary grenades. Types of grenades, their components and effective ranges are all clearly covered by the author, a professional ordnance designer. 8" x 11, softcover, 72 pages, illustrated.

FP-5 \$10.00



CIA IMPROVISED SABOTAGE DEVICES

This book is a comprehensive study of improvised sabotage devices made from, in most cases, common household items. It shows how to take the crudest equipment and make some of the most effective devices available. Includes: Firing Systems, Detonators, Steel Cutting Techniques, Cratering Explosive and much more. 8" x 11, softcover, 76 pages, 65 illustrations. An excellent reference work.

209 \$12.00

THE WEAPONER
An encyclopedia of WICKED WEAPONRY including improvised and concealable weapons, poison gas grenades, killer darts, booby traps and mines, poisons, bombs and explosives. Make all this plus more, using simple tools with easily acquired materials. 11x14", softcover, 187 pages.
WEAP \$14.95



TWO COMPONENT HIGH EXPLOSIVE MIXTURES

Produce powerful, explosive by combining two compounds which separately were safe to handle. One explosive covered: Astrolite A-1-5, world's most powerful non-nuclear explosive. 5 1/2 x 8 1/2", softcover, 28 pages, illus.

251 \$4.95



POOR MAN'S JAMES BOND VOLUME 2

This volume includes a reprint of the book *The Poor Man's Armorer* containing a complete arsenal of improvised weaponry not published in any other book. Also included is *Improvised Munitions Handbook TM-31-210, American Ju-Jitsu*. A complete study of explosives. 480 pgs., illus. 8" x 11, softcover.

PMJB-2 \$14.95



SECRET GUIDE TO MAKING NINJA WEAPONS

Politicians are currently trying to outlaw the sale and ownership of Ninja weapons. Don't be caught defenseless, make your own Ninja swords, knives, spears, Shoge, Blowguns, Darts, Shuriken, Nunchaku, and more. Draftsman quality drawings with step-by-step instructions you can learn the lost art of Ninja weapons making.

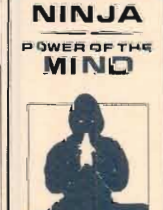
B-102 \$9.95



IMPROVISED NINJA SMOKE DEVICES

Learn secrets of manufacturing Ninja smoke producing devices. Sections on strategy & techniques tell how to evade the enemy, vanish into an exploding smoke cloud and create distractions. Complete step-by-step illustrations reveal the once secret formula for making Ninja smoke bombs.

B-101 \$9.95



NINJA POWER OF THE MIND

Grandmaster Toshitōra Yamashiro discloses actual training methods for tapping the mystical forces within. Breathing techniques, meditation and the Kujikiri hand symbols are covered in detail. Ninja can learn to control animals, endure pain, heat, cold, turn invisible, read minds and stun or kill opponents with a touch, a shout or even a look. 5" x 8", softcover, illustrated.

B-104 \$9.95

FULL-AUTO CONVERSION MANUALS

All Manuals Contain Complete Conversion Instructions

AR-15 (Ord. No. 061)	\$8.00
UZI (Ord. No. 036)	\$6.00
MAC 10 (Ord. No. 010)	\$8.00
THOMPSON (Ord. No. 027)	\$5.00
M1 to M2 CARBINE (Ord. No. 130)	\$5.00
AK-22 (Ord. No. 022)	\$6.00
SELECT FIRE 10/22 (Ord. No. 229)	\$10.00

24 PAGE FULL-AUTO, WEAPONS & MARTIAL ARTS CATALOG \$1.00
(CATALOG SENT FREE WITH ORDER)

BUTOKUKAI P.O. Box 430, Dept. SG07, Cornville, AZ 86325

Name _____		Age _____	
Address _____			
City _____		State _____	Zip _____
() VISA () MC Card No. _____			
Exp. Date _____		Signature _____	
Quantity	Stock No.	U.S. Funds	Total
WE ACCEPT MONEY ORDERS, CHECKS, MASTERCARD OR VISA, NO COD'S			Shipping \$2.00
(602) 634-6280			TOTAL

Unconventional Weapons:

Terrorist Arsenal

A pretty young pregnant woman approaches the entrance to a government building in a large West German city. The guard, who is supposed to body-search everybody entering, feels uncomfortable about groping over the belly of the young mother, so he smiles and waves her past. In five minutes, the same young woman, now slim and trim, after a remarkably fast "delivery," exits from another door. Ten minutes later, the "baby" explodes with a shattering roar.

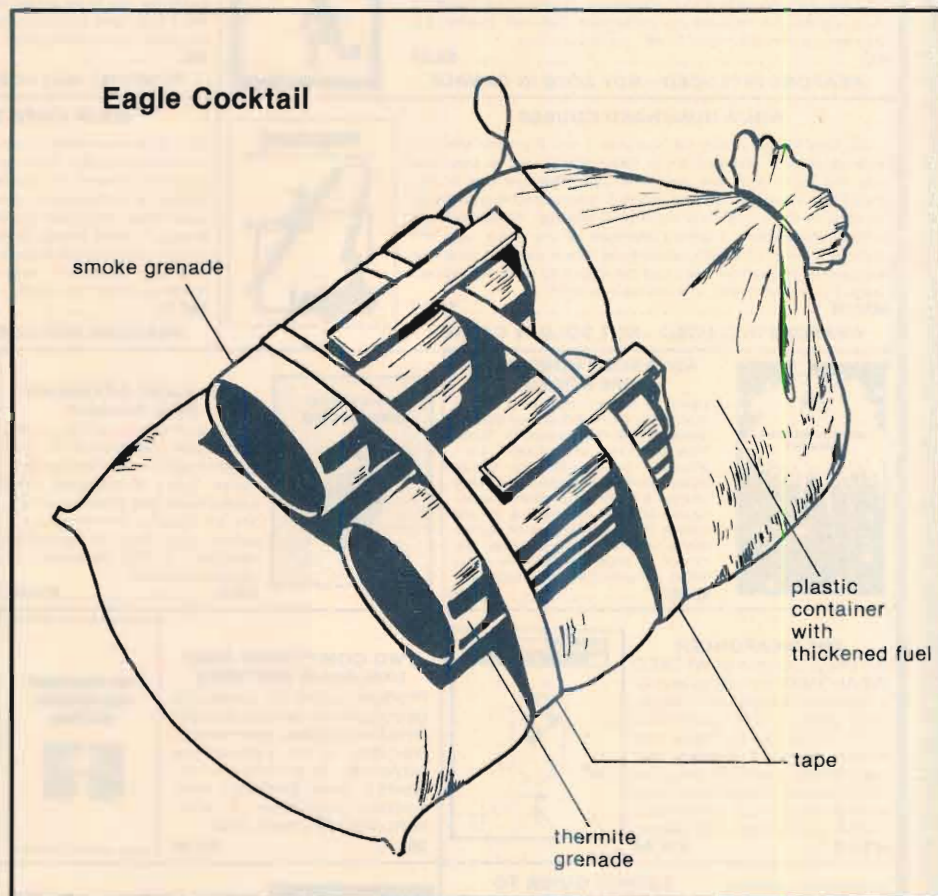
U.S. drug enforcement agents pause briefly before storming a suburban home known to be a cocaine processing lab. The DEA team bursts into the darkened living room. When the light is turned on, the large 200-watt bulb explodes, sending a fiery sheet of home-made napalm over the agents.

Two members of a Puerto Rican terrorist organization place an "eagle cocktail," a plastic container filled with thickened fuel with a thermite grenade taped on to it, next to a thin-skinned gasoline storage tank. The resulting fireball completely destroys a New Jersey refinery.

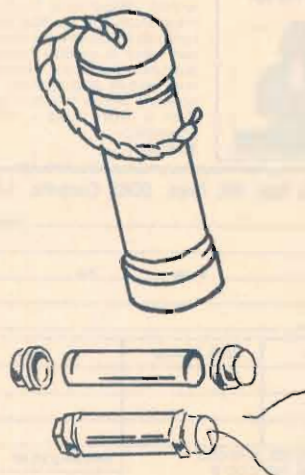
Not all terrorist groups have access to rocket propelled grenades or shoulder-fired missiles let alone submachine guns. The security environment in many Western nations precludes the prominent display and use of such exotic hardware. The logistical and security problems of obtaining, transporting, and using many conventional weapons is difficult, if not impossible in those nations which are improving their counter/anti-terrorist skills and forces.

Not all terrorist groups have access to rocket propelled grenades or shoulder-fired missiles . . .

By Carl H. Yeager



Steel Pipe Filled With Explosives



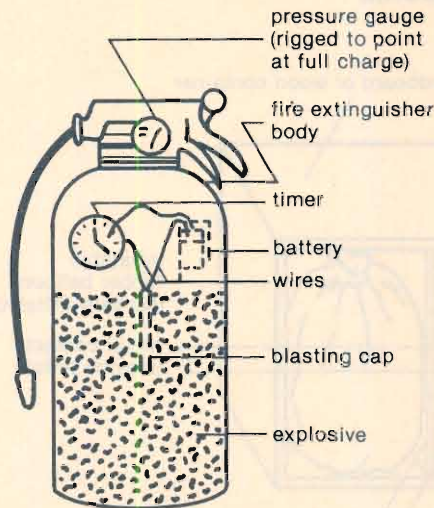
What this means is that terrorist groups have to be more innovative. If conventional weapons are hard to obtain or dangerous to use, then unconventional weapons have to be devised. Usually unconventional tactics have to be formulated around the unconventional weapons systems such as the hypothetical incidents mentioned above.

Small terrorist groups seek any device which will be "force multipliers," that is, to develop those weapons and tactics which will enable them to utilize their clandestine tactics to maximum advantage; to develop weapons systems from materials which can be obtained on the open market which can be used to make dramatic political and social statements, in other words, to appear more potent and larger than they really are. *The Mini-manual of the Urban*

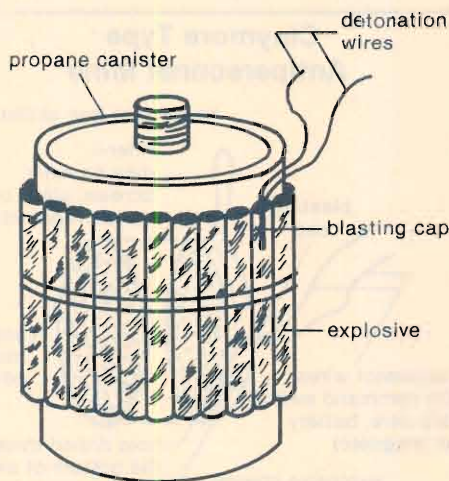
Guerilla, the bible of terrorists world wide, stresses the need of each terrorist to become proficient in the manufacture and use of unconventional weapons and tactics which will enable him to operate as a "one man army."

Fire—A series of fires in several of New York City's major department stores were claimed by the Fuerza Armada de Liberación Nacional, (FALN) a major Puerto Rican terrorist group which has been plaguing the continental United States and Puerto Rico for years. Their use of arson to prove their potency was simple: a package of cigarettes was carried into target stores stuffed with certain chemicals. To activate the contents, the terrorists simply broke a glass vial inside the cigarette pack. In approximately 30 minutes there was an instantaneous ignition.

Fire Extinguisher Bomb



Propane Canister Bomb



Terrorists and narcotics traffickers have used flammable fuel-filled lightbulbs as assassination devices and booby traps. A regular household lightbulb can be used as an ignition arson device and bomb.

Another variation of this weapon is the use of an electrically detonated grenade which is modified to screw into a light socket. The switch-on creates a shower of shrapnel instead of fire.

Many other products, such as phosphorous, when not in water, will cause a fire. A few drops of oil on chlorine will cause a fire within 20 minutes depending on the freshness of the chlorine. Many other flammable liquids that are readily available on the commercial market are used by terrorists in arson attacks. One of the most commonly used incendiary devices in World War 2 was the Molotov cocktail. It was extremely effective against armored vehicles and fortifications. It consisted of gasoline mixed with fuel oil poured into a glass bottle. A cloth wick soaked with gasoline was stuffed in the opening of the bottle. To attack the target, the wick would be lit and the bottle thrown. The

breaking bottle exposed the gasoline/fuel oil mixture to the open flame which would cause an instant conflagration. The same weapon can be equipped with a timing device to allow the user to leave the scene.

A more exotic and effective device, for use against larger and harder targets, is the "Eagle Cocktail." This is a plastic container filled with thickened fuel (usually a gasoline and fuel oil mixture) with a thermite and smoke grenade taped in place. When the pins are pulled on both grenades simultaneously, the resulting fire and explosion will burn through metal objects such as fuel storage and propane tanks. The smoke grenade creates billows of clouds which enables the terrorist to get away and which will hamper fire fighting efforts. Thermite and smoke grenades aren't exactly over-the-counter items. If needed, terrorists often visit a local military armory . . . preferably after dark.

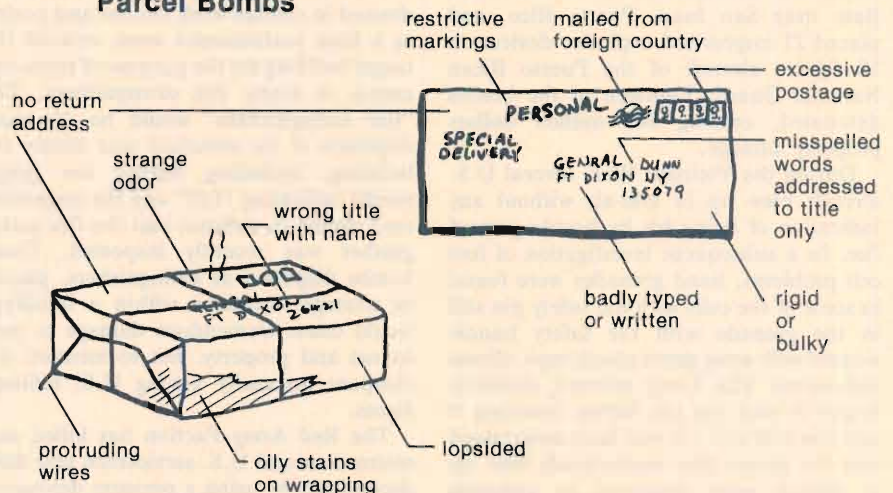
Bombs—An exploding vehicle can be a powerful political statement. Gas tank

bombs can be easily made by even the most dullwitted terrorist. A small container of corrosive material is dropped into a vehicle gas tank. Usually within 30 minutes or less, the shell of the container will deteriorate, allowing the material inside it and the fuel to mix, causing an explosive fire.

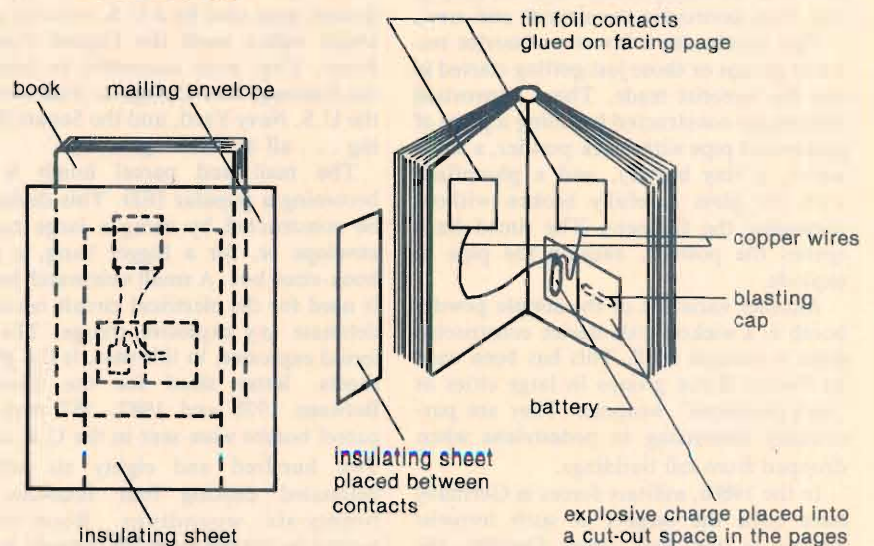
Another method is to use gelatin capsules filled with more gelatin for stronger fingernails (which can be bought at most grocery or drug stores.) The gelatin is emptied, and a lead BB is inserted in each now-empty capsule to make them sink. Sodium and calcium compounds are then forced into the capsules before closing them. It only takes three or four capsules in a gas tank to create havoc. When the capsules disintegrate, the moisture of the gas turns the chemicals into explosive gas, causing the gas tank to become a bomb.

The use of bombs and explosive devices by terrorists has always been effective due to the low cost, simple construction, and

Parcel Bombs



Book Bomb



Terrorist Arsenal

low risk. The "big bang" of a terrorist-initiated explosion attracts the media much more than most terrorist incidents.

When terrorist bombs are mentioned, many people think of truck bombs which, of course, are fast becoming conventional "strategic" weapons of the Shiite Islamic groups such as Amal and the Islamic Jihad. The bomb that killed 241 Marines in Beirut was an RDX explosive-propane enhanced device.

But terrorist bombs come in all sizes. Trucks and cars filled with explosives and propane gas can be further enhanced with nails, glass, steel bearings, and abrasive materials to increase the maiming or killing power. "Mini" enhanced bombs have been constructed by using a simple propane canister—the kind found in recreational vehicles—surrounded by commercial dynamite.

In 1981, members of a Puerto Rican terrorist group called Los Macheteros, penetrated the defenses of Munis Air Force Base near San Juan, Puerto Rico, and placed 21 improvised explosive devices on 12 fighter aircraft of the Puerto Rican National Guard. Eighteen of the bombs detonated, causing \$45 million dollars property damage.

During the Vietnam War, several U.S. aircraft blew up in mid-air without any indication of being hit by hostile ground fire. In a subsequent investigation of fuel cell problems, hand grenades were found in some of the cells with the safety pin still in the grenade with the safety handle secured with army green plastic tape. (Some dull-witted Viet Cong terrorist evidently forgot to pull the pin before inserting it into the fuel cell.) It was later ascertained that the planes that mysteriously blew up in mid-air were destroyed by grenades whose handles were secured by tape after the pins were pulled. The aviation fuel would deteriorate the tape, causing the release of the safety handle after an hour or less, thus destroying the aircraft and crew.

Pipe bombs are a favorite of novice terrorist groups or those just getting started in the terrorist trade. These improvised devices are constructed by filling a piece of galvanized pipe with black powder, a small watch, a tiny battery, and a photoflash with the glass carefully broken without damaging the filament. The timed flash ignites the powder, causing the pipe to explode.

Another variation of the simple powder bomb is a wicked little device constructed from a shotgun shell. This has been used by Puerto Rican groups in large cities as "anti-personnel" weapons. They are particularly distressing to pedestrians when dropped from tall buildings.

In the 1980s, military forces in Germany have been the targets of such terrorist groups as the Red Army Faction, the Revolutionary Cells, and Guerrilla

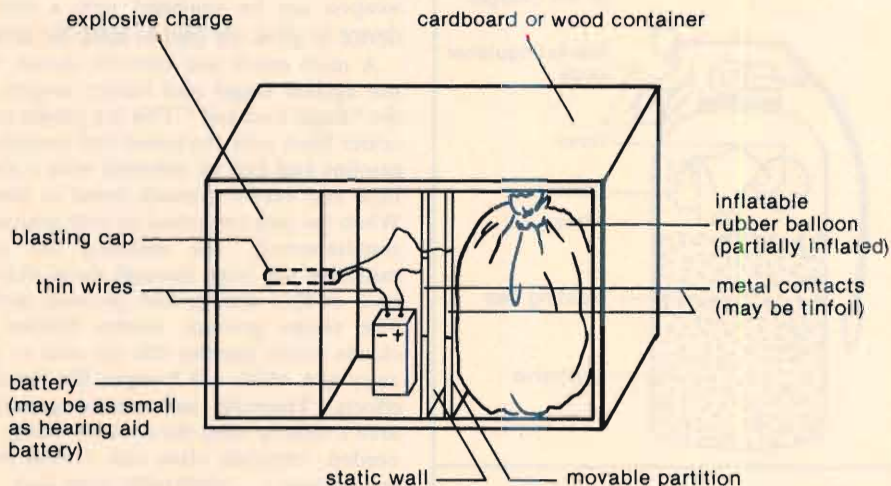
Diffusa. Eight of the past bombings involved the following tactic: the terrorist, dressed in civilian work clothes and posing as a base maintenance man, entered the target building for the purpose of replacing empty or faulty fire extinguishers. The "fire extinguishers" would be an exact duplicate of the standard type within the building, including having the gauge needle indicating "full" and the inspection card signed to indicate that the fire extinguisher was recently inspected. These bombs disguised as extinguishers, placed in strategic locations within a building, would cause tremendous damage to personnel and property, not to mention the rampant insecurity among U.S. military forces.

The Red Army Faction has killed and maimed several U.S. servicemen and their dependents by using a pressure detonated switch placed on a bomb under a car seat. When the victim sits down and depresses the switch, the device is activated. In 1985, other successful improvised explosive devices were used by a U.S. terrorist group which called itself the United Freedom Front. They were successful in bombing the National War College at Fort McNair, the U.S. Navy Yard, and the Senate Building . . . all in Washington, D.C.

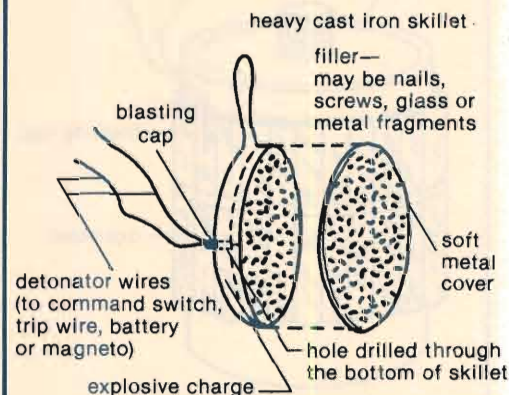
The mail and parcel bomb is fast becoming a popular IED. This device can be constructed by using a large manilla envelope or, for a bigger bang, a small book-sized box. A small wristwatch battery is used for the electrical circuit needed to detonate any explosive charge. The preferred explosive, in this case, is C-4 plastic sheets, letter sized for the envelope. Between 1978 and 1982, 357 mail and parcel bombs were sent in the U.S. alone. Two hundred and eighty six actually detonated causing four fatalities and twenty-six woundings. Book-bombs mailed in parcels were particularly lethal.

A recent innovation utilizing the mail

Altitude Bomb



Claymore Type Antipersonnel Mine



parcel bomb was the use of sulfuric acid and a small cyanide tablet. Using the same principle of the explosive mail bomb, when the package or letter is opened, the sulphuric acid mixes with the cyanide tablet, creating a cloud of toxic gas and killing the victim.

Even the wrapping cord can be lethal. It might be made of a sophisticated explosive compound called PETN DETCORD. Mail and package bombs, however, can develop problems over time and distance. Explosives leak oily substances; the charge shifts en route creating a telltale lopsidedness and, especially if the terrorist is foreign, mistakes are often made in spelling, addresses, and zip codes.

In spite of heightened security measures, IEDs are still smuggled aboard aircraft with alarming regularity. One of the more innovative IEDs is the altitude bomb developed by Ahmed Jibrail, founder of the Palestinian Liberation Front. After preparing the bombs, they would be inserted into radios or cassettes and then given to unsuspecting females who had no idea that they were taking bombs aboard

(Continued on page 45)

SELECT FIRE 10/22

By Wayne Thornburgh



The TEK Full Auto Conversion

Full Auto



SELECT FIRE 10/22

reliable select fire conversion for the Ruger 10/22 has eluded Class III weapons enthusiasts—until now. The TEK Gun Works conversion method described in this volume may well be the optimum design for converting the 10/22 to select fire. Additionally, it is reasonably simple when compared to her methods being touted in the marketplace—methods that don't work as well. Softcover, illustrated.

29 \$10.00

FULL AUTO, VOLUME ONE AR-15 Modification Manual

Step-by-step instructions for converting this popular sporting and survival rifle to FULL-AUTO. Auto-Sears explained with reviews of several brands. PLUS full machinist's drawings for a homemade Auto-Sear. Even if you don't plan to convert your AR-15, you owe it to yourself to know how. The day may come when a well armed populace will mean the difference between freedom and tyranny. 5 1/2 x 8 1/2, softcover, 32 pages, illustrated.

31 \$6.00



FULL AUTO KG-99 by Gary Hill

G-99 owners, your book has arrived. It's been a long time in the waiting but like all good things it's well worth it. A totally reliable open bolt conversion for the semiauto family of KG-99's. Covered in this manual are the conversion plans for the interdynamic G-99, KG-99 Mini, Intratec TEC-9 and EC-9 Mini. Complete with many photographs, machinist drawings and exploded views with parts listings and a step-by-step easy to understand procedure. 5 1/2 x 8 1/2, softcover, 48 pages.

G-99 \$8.00

FULL AUTO

H&K 91/93 Conversion Manual

Now, the civilian-legal cousins of the G3, the H&K 91/93 can be converted to selective fire, thus allowing the civilian H&K owner to replicate the function of a factory original G3. This isn't a risky-dink kitchen table conversion, but a mechanically sound method devised and executed by a professional machinist with a thorough knowledge of gunsmithing. Virtually every phase of the conversion process is explained in detail. 5 1/2 x 8 1/2, softcover, 36 pages.

HK 91/93 \$8.00

FULL AUTO, VOLUME TWO

Semiauto UZI Modification Manual

This revised edition covers two methods of conversion, one for a drop-in conversion to full-auto only and one for permanent conversion to selective fire. Every step is shown in large, clear photos and concise, easy to understand text. Remember, due to federal law, Israeli-made full-auto UZI's will never be available to collectors, but the semiauto version may be converted. 5 1/2 x 8 1/2, softcover, 34 pages, profusely illustrated.

036 \$6.00

FULL AUTO, VOLUME FOUR Semiauto Thompson M27 A-1 Modification Manual

The Thompson semiauto Model 27 A-1 is extremely popular among civilians and is one of the easiest semiautos to convert to FULL-AUTO. There are no extra parts to buy and only three original parts need to be altered. Complete machinist's drawings illustrate the alterations, which can be done in a basic machine shop. Easily understood text. 5 1/2 x 8 1/2, softcover, 24 pages, illustrated, including a history of the Thompson SMG.

027 \$6.00

FULL AUTO, VOLUME FIVE M1 to M2 Carbine Modification Manual

Since the M2 is a direct descendant of the M1, the M1 can easily be converted to full-auto by a mere substitution of parts and some minor alterations in the stock and trigger housing. This book contains all the information needed for the conversion: basic differences between the M1 and M2, the parts needed are listed and shown, even full machinist's drawings for converting M1 parts should certain M2 parts prove difficult to find. 5 1/2 x 8 1/2, softcover, 28 pages, fully illustrated.

130 \$6.00

FULL AUTO, VOLUME THREE Semiauto MAC 10 Modification Manual

This manual presents six different methods of converting the semiauto MAC 10 to FULL-AUTO. These methods range from very simple, full-auto only conversions to more involved, selective fire versions. All modifications are easy and require no difficult machining operations. Conversion techniques range from the mere removal of metal to the addition of simple, removable parts. 5 1/2 x 8 1/2, softcover, 52 pages, profusely illustrated.

010 \$6.00

FULL AUTO, VOLUME SEVEN Semiauto Bingham AK-22 Modification Manual

This little AK-47 look-alike in .22 rimfire is an excellent choice for conversion to selective fire due to its reliability of functioning, simplicity of design and the low cost of .22 LR ammo. Virtually every step of the conversion is shown in detail, along with clear, concise text and full machinist's drawings. Enjoy a full-auto, cheap to feed .22 LR AK look-alike! 5 1/2 x 8 1/2, softcover, 32 pages, illustrated.

022 \$6.00

FULL AUTO HK 94

Full Auto Conversion Manual

The HK 94 A2/A39mm carbines from Heckler and Koch in West Germany are civilian versions of the military MP5 submachine gun used by elite counterterrorist units everywhere. The HK 94 constructed of space age materials and manufacturing technology, is lightweight, low recoiling, hard hitting at 800 rpm as provided with this conversion. Profusely illustrated with all necessary information, photographs, fully dimensioned machinist drawings and detailed sequence drawings for selective fire conversion. 5 1/2 x 8 1/2, softcover, 56 pages.

HK 94 \$8.00



DESERT PUBLICATIONS

P.O. Box 270 • Cornville, AZ 86325

602/634-6242

Name _____

Address _____

City _____

State _____ Zip _____

☐ Check or M.O.
☐ VISA or MasterCard

No. _____

Exp. Date _____

Book No. _____ Qty. _____ Price _____ Total _____

Shipping & Handling \$2.00

(AZ Res. Add 6% State Sales Tax) TOTAL _____



ASG



Coleman-Western:

Outdoors Companions

A few examples of some fine cutting and sawing tools . . .

Staff Report

COLEMAN-WESTERN's best-selling new Mighty Light locking folder knives are a hot item with retailers again this year and are available in several new models.

The Mighty Lights shown here have the traditional gray nylon sheaths and matte black lightweight synthetic handles which are ergonomically designed and precision molded to fit the user's hand. The handle top is rocker shaped to conform to the palm and the bottom is scalloped so fingers fit and are protected.

Mighty Light lockback clip blades are crafted from 440 stainless steel, hardened and tempered to take a razor edge and, hold it. The smaller model pictured here is 6 inches overall when opened with a 2 1/4-inch standard parkerized blade and a 2 1/8-inch parkerized saw blade. The new larger version measures 8 1/2 inches open with a 3 1/8-inch standard parkerized blade and a parkerized saw blade of the same length. Both standard and saw blades lock open. The Mighty Lights are now available with Hunter Green handles and camouflage sheaths.

Another piece of cutlery pictured here is the Knife/Saw. It features the same type handle material as the Mighty Lights. Its large 4 1/4-inch standard blade with serrated rear cutting edge locks open by means of a single metal plate inside the handle which is pressed to unlock and fold



Coleman-Western's Mighty Light lockblade folders, Model 954, left, and Model 952.

the blade. The 5-inch saw blade does not lock open.

Also shown here is the Coleman-Western Sheath Knife. It is a full-tang knife with beautiful rosewood handles and steel handle rivets. The blade is 3 inches with a finger groove at the bottom rear for

a sure grip. It comes with a sturdy leather belt sheath.

These and other fine Coleman-Western cutlery are available at better knife dealers and other retail outlets across the country. Take a look at them and compare the quality to other knives around. ●



The Knife/Saw Model 955.



Sheath Knife Model W81.

PROVISIONS UNLIMITED

High Quality Water Solutions



Katadyn Drip Filter

The Katadyn Drip Filter is the easiest way to produce large quantities of safe drinking and cooking water outdoors and indoors without resorting to plumbed-in filter installations. The Katadyn Drip Filter is standard equipment in Swiss Civil Defense Shelters as it effectively removes nuclear fallout debris and other similar hazardous particles such as asbestos fibers in addition to removing absolutely all free-living infectious microorganisms.

Applications are of wide scope and include:

Foreign temporary residences of diplomats, missionaries, Peace Corps workers, prospectors, geologists, engineers, professors and students on study or research assignments.

Short-term encampment sites for military troops, construction workers, scientific researchers, hunters, fishermen and outdoor enthusiasts.

Apartments where tenants are prohibited from plumbing modifications or other installations.

Country homes or remote cabins where water pressure is inadequate for plumbed-in models.

Emergency preparedness equipment in the event of natural or man-made disasters.

The Drip Filter consists of upper and lower reservoirs which stack one above the other and nest when not in use. The upper container holds up to three No. 4 filter elements which are ported through to the lower container. To use, the upper reservoir is filled with raw water which slowly filters through the ceramic elements and collects in the lower reservoir. Purified water can then be drawn off as needed through the spigot on the lower container.

Throughput is 3 gallons per day when filled twice per day and 5 gallons per day when filled four times per day with three filter elements installed. Filtration is fastest with the top reservoir filled.

Total Height—Ready for Transport: 18 inches. Ready for Use: 26 inches. Diameter: 11 inches. Capacity: 3 Gallons. Weight with three No. 4 filter elements (included): 12 pounds.

TRK—Katadyn Drip Filter. #5010. \$250.00 ppd.

Spare No. 4 Filter Element. #10010. \$60.00 ppd.

Expedition Filter

This filter is a larger portable model suitable for houses without a water supply, expeditions and civil emergency use. Like the Pocket Filter, sterile water out-at-the-top, raw water in-through-the-bottom is a Katadyn design to minimize water handling and accidental contamination of the purified water by operating personnel. The Expedition Filter is comprised of a nickel-plated brass pump and filter housing, surface treated corrosion resistant steel stand, one No. 4 ceramic filter element and an intake hose with coarse particle strainer. Ready for use, the height can be regulated between 24" and 32". The total height ready for transport is 24".

Built to Swiss military specifications, this rugged filter can produce up to one gallon per minute of safe potable water. When output is slowed by excessive silt or algae, full flow is easily restored by wiping or brushing the filter element.

The Expedition Filter is packed in a canvas case with shoulder strap and includes a filter element cleaning brush. Total weight: 14 pounds.

KFT—Katadyn Expedition Filter. #4010. \$495.00 ppd.

Spare No. 4 Filter Element. #10010. \$60.00 ppd.



KATADYN POCKET FILTER...

Instantly purifies water anywhere!

Who uses Katadyn Water Filters? Katadyn Water Filters meet military specifications and are standard issue with NATO and many other armies. They're a staple item with the Swiss Red Cross which stocks them and uses them whenever a natural disaster strikes anywhere in the world—in cases of floods and earthquakes, public water supplies invariably become contaminated and immediate access to safe drinking water quickly becomes critical to the survivors. Dozens of missionary societies all over the world rely on Katadyn Water Filters to keep staffs healthy and functioning. Many of the expeditions to remote areas have relied on Katadyns including most of the major Himalayan ascents.

How does the Katadyn Pocket Filter work? Manufactured in Switzerland for over half a century, Katadyn's Water Filters are based on the proven and simple mechanical principle of microfiltration. The filter element is a microporous ceramic material with an effective porosity smaller than 0.2 microns. It acts as a microfine filter on water forced through it, straining out bacteriological contaminants including the smallest known free living organisms.

All harmful cocci, bacteria, protozoa, fungi, cysts and parasites are totally removed including the chemically resistant infectious agents of *Giardia*, the amoebic and shigella dysenteries, pseudomonas, salmonella, Entamoeba histolytica, naeglaeri, and also those causing typhoid, cholera, bilharzia, schistosoma and a long list of other dangerous diseases. Katadyn Filters also effectively remove nuclear fallout debris and other similar hazardous particles such as asbestos fibers.

Do Katadyn Filters rely on chemicals for their effectiveness? Absolutely not...and this is the most important distinction between Katadyn Pocket Filters and other portable water purifiers you may have seen. Because Katadyn Filters are based on microfiltration, they work equally well on all types of raw water regardless of the temperature or degree of turbidity.

Chemical methods of water disinfection, including both chemicals added to water and all water filters based on chemical disinfection principles involving chlorine or iodine compounds, can be shown to work well under carefully controlled laboratory conditions but will vary greatly in their effectiveness under practical field conditions.

Factors bearing the effectiveness of chemical disinfection methods include the type and concentration of the pathogen, the turbidity of the water including the nature and quantity of the suspended materials, the water temperature and pH (acidity), how much organic matter may be in the water (such as humus and from decaying vegetation), the contact time between the chemical disinfectant and the pathogens, how vigorously and how long the chemical/water mixture is agitated, what plastics may be present that might react with and consume the chemical and the storage history of the chemical. Is it old, been stored too long and at too high a temperature and hence stale and ineffective?

When purifying water you're going to drink, "99%" or even "99.999%" effectiveness is not enough. In the case of *Giardia lamblia*,* as few as half a dozen ingested cysts can infect you. Badly contaminated water may contain a million cysts or more per liter of raw water.

Microfiltration with Katadyn Water Filters is an absolute method. As long as the filter element is intact, no biological pathogens larger than 0.2 microns can pass through. This is true regardless of the field operating conditions. Neither is there a shelf life problem with Katadyn Filters. Storage life is unlimited as long as you store the filter at temperatures below that might damage the seals.

The ceramic filter is factory impregnated with silver to prevent algae, fungi and bacteria from colonizing the surface of the element and plugging it up. This might otherwise happen if you put a wet and dirty filter away for several weeks after using it. Silver is in no way involved in the filter's purification process.

No chemicals are added to the purified water and none are removed—the water retains its natural mineral content. Neither will seawater or brackish water be made potable as no salts are removed.

What about muddy water with algae in it? Unlike chemical methods, Katadyn Filters **work equally well with turbid water** heavily laden with silt or algae and will **clarify the water** as well as disinfect it. Because of the very large surface and "depth filter" action of the Katadyn microporous ceramic element, you can work with raw water laden with these materials. River guides on the Colorado and Green Rivers use Katadyn Filters on water so muddy you can't see your finger tips if you dip your hand in the water. Even under such conditions plugging is seldom a problem. If you do manage to plug up the filter, full flow can normally be restored simply by wiping off the filter element. Under very difficult conditions, such as water loaded with microfine clays, the top surface of the filter element can be scraped away using the brush included with the filter. This process exposes a fresh, unobstructed surface and can be repeated hundreds of times before you need to replace the ceramic filter element.

Are any consumable supplies needed with Katadyns? Because no chemicals are used, there are no consumable items involved with Katadyn Filters. Even with daily use in very turbid water, a single filter element can be expected to last five years or more. If you were to drop the exposed ceramic filter element on a sharp rock while you had it apart for cleaning, you could crack the ceramic. With reasonable care this should never happen. If you are planning a trip to a remote area or distant country, it would be a good idea to take along a spare filter element.

*The reproductive trophozoite stage of *Giardia* is 9-21 microns in length and 5-15 microns in width. Approximately 8,000 trophozoites can fit on the head of a pin.

"The effectiveness of the filters is stupendous, they are sturdy and fully capable of standing up to extreme situations. In addition, they are easy to operate and to service."

Swiss Red Cross

"After two weeks, the only ones in the group that weren't sick were the two of us sharing a Katadyn Pocket Filter. Everybody else begged to borrow it the rest of the trip."

International student group travelling in Africa

"We have taken the Katadyn Pocket Filter pump on the Green and Colorado River in Canyonlands National Park this past season. The filter worked well in the silt laden river."

Expedition leader

"The Katadyn filter pumps are superb and served us well on the Omo River expedition. I can't imagine going on any expedition anywhere in the world outside the Arctic and Antarctic without one. They are a necessity." Yale University/
National Geographic Omo River Expedition leader

JULY 1987/AMERICAN SURVIVAL GUIDE

Certificates of the effectiveness of Katadyn Water Filters on file at the factory include:

Swiss Tropical Institute, Basle
University of Zurich
Pasteur Institute, Lille
Harvard University, Cambridge
University of Costa Rica, San Jose
National Institute of Hygiene, Lima
Haffkine Institute, Bombay
Harcourt Butler Institute, Rangoon
Public Health Department, Sydney
Bureau of Health, Manila
Africa Inland Mission, Kampala
Ministry of Health, Cairo
Ross Institute of Tropical Medicine, London
EPA Registration #39444-1



How is the Pocket Filter constructed?

The Katadyn Pocket Filter consists of the ceramic filter element hermetically sealed to protect the "clean side" of the filter, a built-in hand pump to easily develop the 50 psi pressure needed to maintain good flow rates through the very fine pores of the filter, a protective housing, a base fitting with check valves to route the water flow and a silicon intake hose with a coarse particle strainer.

Basically, the Pocket Filter contains three concentric chambers. The outermost chamber is the "raw water" cavity and the surface of the ceramic filter you see when you remove the outer case is the "dirty" side of the filter element. In the center of the filter is a pump cylinder with a reciprocating piston connected to the pump handle. The pump sucks raw water into the cylinder through a check valve on the upstroke, and then on the downstroke routes the water through a second check valve to the outermost chamber. Here the raw water is forced into the surface of the ceramic filter, through the body thickness of the ceramic filter and into a hidden inner "clean water" chamber.

What kind of routine maintenance is required for Katadyn Pocket Filters?

After using the filter and before storing it, remove the protective shell, wash off the ceramic filter element and allow it to air-dry thoroughly before reassembling it. The drying process is completed in 12 to 24 hours depending on the ambient temperature and humidity. Daily use does not require the drying process, but should the filter use be suspended for more than two days, the element should be dried. You'll want to lubricate the pump piston O-ring occasionally with vaseline.

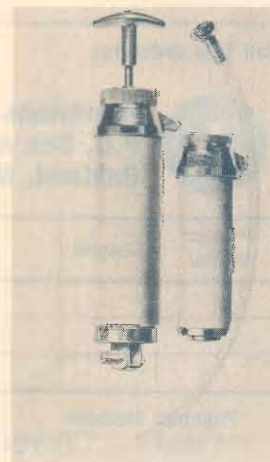
Soap, abrasives or antiseptics should not be used to clean the ceramic filter element. The ceramic element should never be steamed nor used with hot water or the seals will be damaged.

How does the Katadyn Pocket Filter operate?

To purify water, simply place the metal strainer end of the silicon rubber intake hose into the water source out of the mud and sedimentary silt. Place the lower end of the Pocket Filter upon the ground and position the clean water receptacle beneath the output spout. By grasping the pump handle, keeping the forearm rigid and pumping steadily at a rate of about 80 strokes per minute, the average person may produce one quart of water every 90 seconds. When operating the filter for the first time, you'll want to discard the first quart or so of water until any loose ceramic particles are flushed out. One Katadyn Pocket Filter will easily and conveniently support the drinking water requirements of several people.

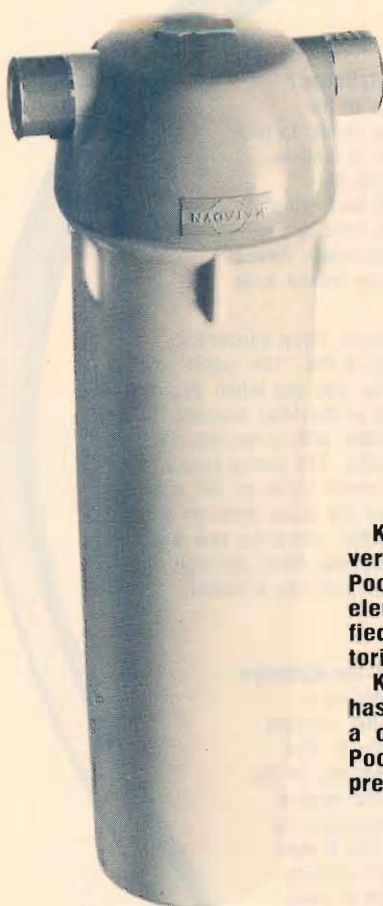
Very light and compact, only 10" long and 2" diameter—the Pocket Filter weighs only 23 ounces including protective zippered carrying case, filter element cleaning brush, gauge and extra O-ring.

PF—Katadyn Pocket Filter. #3010. \$175.00 ppd.
PFE—Spare Filter Element. #3020. \$87.50 ppd.
Field Maintenance Kit. #3050. \$5.00 ppd.



OP17 Survival Guide July '87 - 39-40/41-48 54 S. 9

The look and taste of water, however clear and fresh it may seem, can be deceiving. Only reliably purified water is hygienic and safe. Even boiling guarantees only limited protection. Protect your family and pets from dangerous water-borne diseases by installing a Katadyn Filter.



Katadyn In-Line Filter

The In-Line Filter is designed to be installed under the sink and will supply half a gallon of cold water per minute through one tap at a maximum allowable pressure of 88 psi. The filter housing is constructed of high quality plastic and holds one No. 4 filter element (included). For cleaning purposes the housing is removed by unscrewing it counter-clockwise. The In-Line Filter can be installed in any position using the 1/2" gas thread connections at the base of the unit. Height: 13 inches. Weight: 4 pounds.

HFSK—Katadyn In-Line Filter. #6010. \$140.00 ppd.
Spare No. 4 Filter Element. #10010. \$60.00 ppd.

Katadyn Products Ltd. of Switzerland makes a very broad line of water purifiers from the small Pocket Filter to very large units with many filter elements in parallel which can supply all the purified water needs of beverage companies, laboratories and hospitals.

Katadyn's ceramic microporous filter technology has been in continuous production for over a half a century with over 1,000,000 filters sold. The Pocket Filter has been manufactured and sold in its present configuration for over twenty-five years.

Katadyn Household Filter

The Household Filter is designed to be plumbed in-line and will produce 2 1/2 gallons of cold water per minute through three No. 4 filter elements (included) at a maximum allowable pressure of 88 psi. The filter housing is constructed of a high quality aluminum alloy that is plastic coated for durability and easy maintenance. The 1/2" gas thread outlets are located at the top of the filter with a drain tap underneath. Includes mounting bracket and hardware. Height: 21 inches. Width: 8 inches. Weight: 22 pounds.

MF-3—Katadyn Household Filter. #7010. \$750.00 ppd.
Spare No. 4 Filter Element. #10010. \$60.00 ppd.



Mail This Order To:



Provisions Unlimited
P.O. Box 456
Oakland, Maine 04963

Credit Card Holders May Order by Phone
207-465-3212

Product Number	Quantity	Product Description	Price Per Unit	Total Charge

Payment Method:

- ☐ Check ☐ VISA
☐ Money Order ☐ MasterCard

5% Sales Tax on shipments to Maine
(Do not include food or shipping)

Special Postage/Foreign Shipment

Account # _____

Expiration Date _____ Signature _____

Item Total

Order Total

Ordered by: _____ Date _____

Name _____

Address _____

City _____

State _____ Zip _____

Daytime Phone (_____) _____

Satisfaction Guaranteed: If any of the product you purchase from Provisions Unlimited do not meet your expectations — for whatever reason — simply return the item (in new condition, please) within 30 days for a prompt and courteous refund or credit.

Please send a Provisions Unlimited catalog!

Name _____

Address _____

City _____

State _____ Zip _____

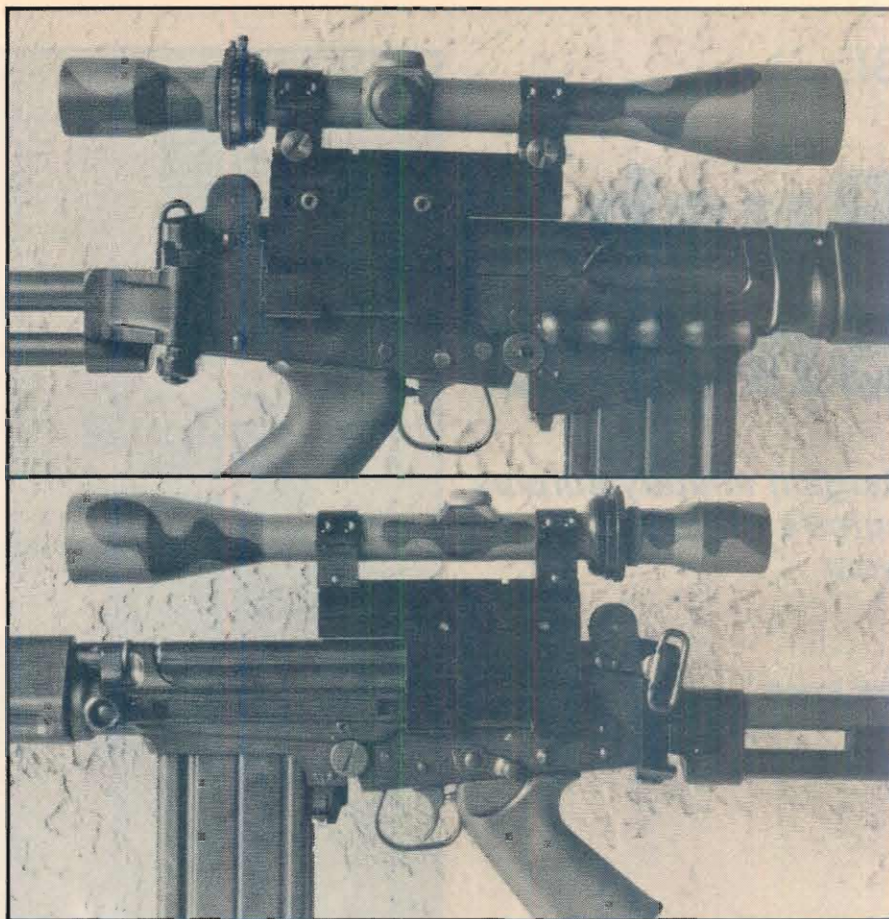
B-Square Company:

Military Rifle Scope Mounts



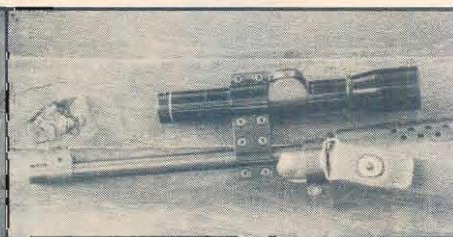
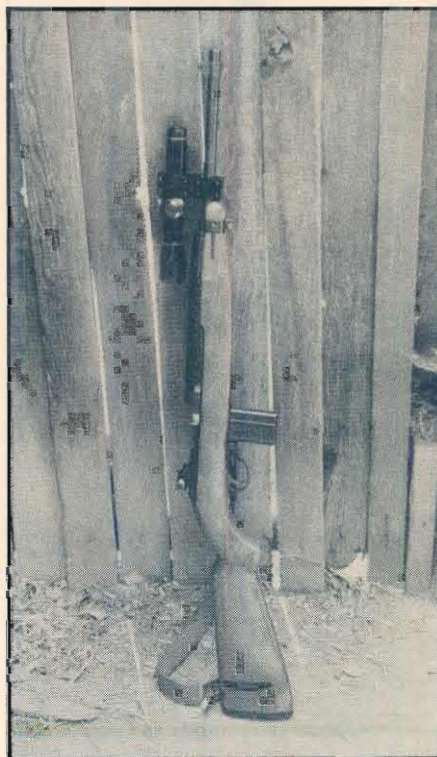
DO YOU have a surplus military rifle or a newly manufactured version of a bolt-action or semi-automatic military rifle for which you'd like to mount a scope but **can't find a mount?**

Try B-Square Company in Fort Worth, Texas. B-Square mounts are well thought out, are available for almost all of rifles mentioned and can be mounted and used



Well-thought-out, no-gunsmithing mounts . . .

Staff Report



B-Square makes more mounts for surplus military guns than anyone else—all use without gunsmithing.

With some exceptions, the mounts replace the rear sight of the rifle, have windage and elevation and have standard dovetail for Weaver-type rings (not included), except those with 1-inch B-Square rings. B-Square mounts don't change the arsenal condition of collected guns.

Shown here are B-Square mounts for the M1 Carbine and M1 Garand rifles, and for the FN FAL rifle. The M1 Carbine mount has a list price of \$39.95. The M1 Garand mount is \$59.95 and the FN FAL mount is \$99.50. These are available from dealers nationwide or directly from B-Square Company, Dept. ASG, P.O. Box 11281, Ft. Worth, TX 76109; (800) 433-2909; in Texas (817) 923-0964. Add \$2.50 per order for S&H. ●

with a scope in minutes with only the simple tools provided with them. And

SI:

Bush Shorts

Bargain military surplus cutoffs for hot weather wear . . .

Staff Report



NOW that we're entering the hot summer months, consider buying a pair of surplus Dutch or U.S. military cutoff pants which have been hemmed and make great warm-weather wear. And they're cheap!

The new (unused) military surplus Dutch cargo pants have two large cargo pockets on the front and two flapped pockets on the rear. They are made of very heavy duty cotton, almost a canvas-like material, very comfortable. Cut off at the knee with button fly which is flapped. Adjustable waist. Dark OD in color, they are \$9.95 each plus \$2 S&H. Two pair for \$19.95 postpaid. Available in sizes 27-38.

Then there are the four-pocket used good condition U.S. military olive khaki shorts that are also hemmed. Some have small repairs but all are in #1 condition. Large pockets on front which will hold lots of gear and two button-flap pockets on the back. They have a flap-covered button fly, large belt loops and are made of 100 percent cotton. All sizes up to 38. Only \$5.95 plus \$1.50 S&H per pair. Three pair for \$15 postpaid.

Both types of these true bush pants are available from SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; (213) 324-8855 or 324-8859; outside California (800) 533-7415. ●

Terrorist Arsenal

(Continued from page 36)

El Al Israeli commercial planes rigged to explode in flight. Two of these young women had been entertained for a weekend in Rome by a couple of Arab students who promised to join them later in Tel Aviv. Although this particular bomb did explode in mid-air, it failed to disintegrate the plane or kill any passengers. The bomb was made with a balloon placed in a box or container just large enough to fit into a radio. As the aircraft moved to a higher altitude, the air pressure around the balloon would lessen, causing the balloon to expand, thus forcing two metal objects connected to the battery to make contact.

CBR Weapons—During the 1968 Democratic Party convention in Chicago, a terrorist safehouse was raided by the FBI and several containers of liquid LSD were found. It was believed that the terrorists planned on inserting the LSD into the community water supply . . . the city side of the filtration plants. In 1975, a group of German nationals were arrested in Sweden for trying to sell a batch of TABUN, a deadly nerve gas, to a terrorist group. That same year, an unknown terrorist group contaminated an Austrian train with Iodine-131, a radioactive isotope that causes cancer.

William H. Cassidy, a renowned expert on exotic weaponry, stated in *An Introductory Overview on Planned Political Assassination*:

" . . . the key elements to consider when examining a chemical or biological technique is the method of delivery. Much as been written about the contact method, involving the use of dimethyl sulfoxide (DMSO). When used with a toxin, DMSO diffuses rapidly through the epidermic, carrying along whatever toxin or other substances it has been mixed with, although DMSO in itself is not toxic. DMSO is freely available from any veterinary supply house or from other sources. Another method used regularly by the Soviet KGB involves a vapor or gas gun. A striker, activated by a small charge, bursts a glass ampoule filled with five cubic centimeters of prussic (hydrocyanic) acid which vaporizes in the victim's face, killing him instantly."

The arms race between terrorist and counterterrorist has developed an unconventional component, as well as conventional. It is the innovative, low technology which can turn an ordinary lightbulb into a napalm device, or a simple cast iron skillet into a claymore mine.

The only restriction is in the imagination of the terrorist. ●

SECURE

Yourself with Dependability

- Quality construction
- Steel barrel and cylinder
- Choose 2" or 4" barrel
- Deep blue finish
- Fixed rear sight
- Quick loading features

Mfg. suggested list

\$149.95

Send for free catalog and information

P.O. Box 4866 Hialeah, FL 33014



Titan Tiger

Model N38

.38 Special 6 shot

Double Action
Revolver



Ask the man who owns one ...

YOUR CHOICE

When the only thing between you and your gun is your holster make sure the holster you own is the finest available. Because when your life is on the line you can't afford 2nd best. This is why **SPECIAL WEAPONS PRODUCTS** takes pride in making the best handcrafted concealment holsters, while using the finest material and design technology available.

Unlike our competitors you will never see a die-cut, taped edged holster in our line of products. However, **SPECIAL WEAPONS** does provide a *Hand-cut, Double-Stitched, And Tucked* holster. Made of the highest grade *Ballistic Nylon* material and we back each holster with a *Life Time Limited Warranty*.

So before you purchase your next holster ... compare **SPECIAL WEAPONS** concealment holsters and see the difference.

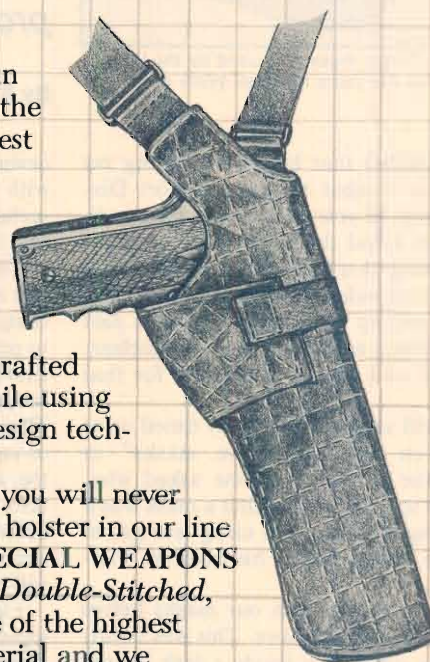
**SPECIAL
WEAPONS
PRODUCTS**

24 Hour Holster \$34.95

Ankle Holster \$29.95

Beltslide Holster \$19.95

"Classic" Holster \$39.95-\$44.95



The Classic

*Life Time
Warranty*

CALL TODAY
NATL 800-262-2220
CA 800-341-3330

- For more information send \$1.00 for catalog
- We accept VISA/MasterCard, Personal Checks. Allow 3 wk on delivery

8740 Flower Road, Rancho Cucamonga, CA 91730

(714) 981-2032

NBC Defense:

Gas Masks

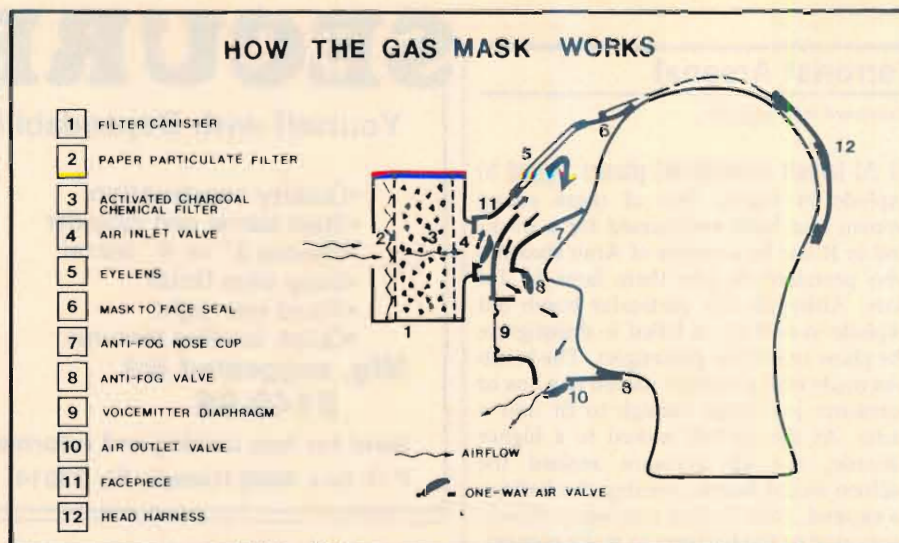


The Akron-Tissot mask was used by the U.S. Army during the years between WW1 and WW2.

NOTHING that happened during my basic combat training at Fort Dix, New Jersey, 10 years ago would have indicated that I had the slightest bit of talent for surviving on a battlefield that had been sprayed with nukes, bugs and gas. Or that I would end up spending the greater part of my military career dealing with nuclear, biological and chemical warfare, for that matter.

The drill sergeants dutifully timed us at putting on our "protective masks" in under nine seconds. No one asked why, though it was mentioned that a mask was a good thing to have when using tear gas to flush the enemy out of his holes in Vietnam.

We were told to don our masks before entering the gas chamber. This was hardly necessary since once inside a leak caused by an improper face seal of the M17 mask that I was issued resulted in my being gassed—totally! I experienced the full effect of the thick CS riot agent which filled the gas chamber: tearing, tightness of chest, burning of skin and an intense



The gas mask or respirator must be of adequate design, properly fitted and in good repair to protect its wearer . . .

By S.R. Pressman

desire to escape the chamber, which I did with great speed without the customary recitation of name, rank, organization, and service number.

The gas mask, respirator, or whatever one chooses to call it must be of adequate design, properly fitted and in good repair to protect its wearer. Using the mask is the first square on the gameboard of nuclear, biological, and chemical (NBC) defense. Though gas warfare is most often thought of as a bunch of World War 1 nostalgia, the reported recent use of chemical warfare by Iraq against Iran, and by the Soviets in Afghanistan, Yemen and Southeast Asia promises no future for those who will not play the game.

Lack of seriousness about NBC defense guarantees that the bad guys will use gas. Thirty to 60 percent casualties inflicted on a force that has no masks, or can not use the masks they have properly is just too lucrative a target to pass up for an enemy chemical target analyst.

Garret A. Morgan (1877-1963) of Cleveland, Ohio, invented the gas mask about

the turn of the century. He was concerned with protecting miners and firefighters from the toxic lighter-than-air gases produced in fires and mines, and had no idea of the horror of gas warfare that the Germans would unleash at Ypres in 1915.

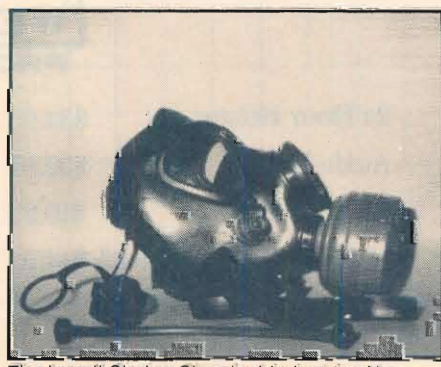
The Morgan safety helmet was a clever affair and was considered to be state-of-the-art until the advent of the self-contained breathing apparatus in the 1930s. It consisted of a helmet which completely covered the head, and a filter box attached by two hoses which hung behind the wearer like an old fashioned tailcoat.

In 1917, the first elements of the American Expeditionary Force sailed for Europe with gas masks manufactured under a crash program directed by Major L.P. Williamson of the Army Surgeon General's Department in cooperation with a volunteer staff from the Bureau of Mines and private industry. The United States manufactured over five million masks before the end of World War 1.

Lens Fogging—The problems of eyelens fogging and uncomfortable fit were solved by the end of the war. A Frenchman named Tissot solved the fogging problem by having the intake air pass over the eyelens of his mask. The Tissot mask used an inner face piece which replaced the nose clip and mouth breathing tube and vented moisture-laden breath away from the eyelens. Major Kops, a New York City corset maker in civilian life, cut the facepiece to the human face, and the concept of individual sizes was introduced. The new facepiece was attached by a hose to an improved British small box filter and was issued in a canvas bag which hung around the neck when the mask was worn. The new mask was called the Kops-Tissot and



This modern version of the GM-38 mask is currently in use with the East German army.



The Israeli Shalon-Chemical Industries No. 15A1 is available in this country through surplus outlets.

the product improved version called the Akron-Tissot mask served the U.S. Army in one form or the other through World War 2.

A modern gas mask will protect its wearer's face, eyes and respiratory tract from an atmosphere that contains as much as a 2 percent field concentration of a toxic agent by filtering out 99.999 percent of toxic vapors from the air. Two percent of a toxic agent may not seem like much, but then the ability to kill or incapacitate a human being when breathed or absorbed through the skin in extremely low concentrations is a characteristic property of chemical weapons. At concentrations greater than 2 percent, a military gas mask will cease to be effective and self-contained breathing devices such as the Scott Air-Pack which work like a diver's SCUBA gear must be used. Greater than 2 percent concentrations are typically encountered by firefighters, chemical

The most important part of the gas mask is the filter. In a military mask the filter consists of two stages, the microporous particulate filter paper and the activated charcoal absorbent.

The filter paper provides protection against particulate smoke type agents, including hexachlorethane and acid-based screening smokes, CS and CN riot agents and arsenic-based incapacitating agents like Adamsite. The activated charcoal protects against all known lethal gases and vapors.

Activated charcoal has miles of microscopic pores, nooks, and crannies that enable it to soak up toxic chemicals just like a sponge. When the charcoal becomes saturated with chemicals the filter must be

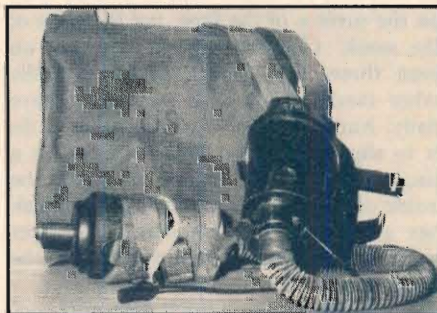
replaced. Water is soaked up by activated charcoal as easily as a chemical agent so most gas masks are issued with either waterproof carriers or plastic bags to keep them dry when fording streams or in wet weather.

Filters should be changed after every gas attack. Filters used in U.S. protective masks are good for about 12 hours in an attack and require a lot of effort to breath through. Their easier breathing European cousins contain proportionally less charcoal and will last only three or four hours in an attack. This is why the United Kingdom issues its soldiers three spare filter canisters with their masks. If operations are anticipated in areas where the air is contaminated by carbon monoxide, ammonia, or other commercial chemicals then industrial grade masks with filters specifically designed to protect against these chemicals must be used, since military filters will not protect against them.

Facelet Masks—The U.K. also issues three protective facelet masks to each soldier. The facelet, a sort of doctor's mask

made of the same carbon impregnated cloth as the NBC protective suit, prevents the involuntary gasp for air which happens when a person is exposed to toxic vapors. The facelet will prevent more than 90 percent of the poison contained in the initial gasp from reaching the lungs of a person under chemical attack. And it can increase available masking time from nine to sixty seconds. The facelet is a handy thing to have when troops are in an area likely to be attacked by chemicals since it allows for unimpeded use of weapons sights, easy breathing and good voice communications.

A typical military gas mask filter has only the equivalent area of a 3/16-inch hole to allow air to get through to the wearer. Thus, the average full face military mask quickly fatigues the wearer because it is so hard to breath through. It gets in the way of weapons sights, limits peripheral vision, and it is hard to hear someone who is wearing a mask that does not have a speech diaphragm or voicemitter. In the field trying to issue instructions through a voicemitter is a lot like trying to command with a kazoo in your mouth.



The U.S. Army M25A1 tanker mask is equipped with a microphone for radio communications.



The U.S. Navy MK V mask is designed to protect against industrial chemicals found onboard ships.

The Gas Masks Rated

Country	Type	Level of Protection	Breathing Resistance	Seal	NATO Filter Compatible	Overall Visibility	Resistance to Fogging	Vision thru (thru Rifle)	Weapons Sights (thru Optics)	Drinking Capability	Carrier Material	Comments
United States	M17	Excellent*	Fair	Edge	No	Good	Good	No	Yes	No	Cotton	*Protection of M17 series masks is excellent when fitted with rubber hood.
	M17A1	"	"	"	"	"	"	"	"	Yes	Duck	
	M17A2	"	"	"	"	"	"	"	"	Yes	"	
	M25	Excellent*	Hard	Edge	No	Excellent	Fair	Yes	Yes	No	"	*Protection same as M17 series. M24 is aircraft version.
	M25A1	"	"	"	"	"	"	"	"	"	"	
	M24	"	"	"	"	"	"	"	"	"	"	
	M9A1	Excellent*	Fair	Edge	No	Good	Good	Yes	Yes	No	"	*Protection same as M17 series. U.S. Navy issue industrial grade mask.
	MK V	Excellent	Hard	Pad	No	Good	Poor	No	Yes	No	"	
United Kingdom	S6	Excellent	Easy	Pad	Yes	Excellent	Excellent	Yes	Yes	No	Nylon	
West Germany	GM-38	Excellent	Fair	Edge	Yes	Poor	Bad	*Yes	Yes	No	Steel Can	*Must cant rifle to get sight picture.
	Civil Defense	Excellent	Fair	Edge	Yes	Good	Good	Yes	Yes	No	None uses neck strap	
Israel	No. 15A1	Excellent	Fair	*Pad	Yes	Good	Good	Yes	Yes	Yes	None uses neck strap	*Tabs at harness attachment points can interfere with seal when donning mask.

NOTES: A Ruger Mini-14 rifle with low mount sights and an SLR camera were used to test ease of sighting.

Though most governments will order the destruction of defective protective masks and filters, the quality of contract overrun and obsolete surplus material can not be guaranteed once it leaves the control of its government agency of origin. THE BUYER BEWARE!

Gas Masks

A good example of a very bad mask is the Soviet standard issue Model ShM. It is designed to protect its wearer at the expense of operational efficiency. But since the Soviets know where and when they are going to use gas this does not seem to cause them much problems. The mask looks like a cross between a WW1 issue "Rat Faced" mask and a bathing cap. The little round eyelenses tend to fog up quite easily since the mask was designed with poor provision to have air flow keep them clear. Also, there is no inner mask over the mouth and nose to prevent exhaled breath from condensing on the eyelenses. Instead, the Soviets issue an anti-dim set consisting of special cloths and grease crayons meant to be rubbed on the inside of the lens. The filter canister is a WW1 refugee that is heavy, bulky and over effective. It attaches to the facepiece by a rubber hose. A nice feature is that an additional carbon monoxide canister can be connected in series with the standard toxic agent canister. This makes Ivan's motorized troops very happy.

The Model ShM is also issued in two special versions. A communications version is issued to radio operators. It has a voicemitter and cutouts in the bathing cap part for the use of headphones. The Model ShMS is issued to gunners and those troops whose poor eyesight requires corrective lenses. The smaller 40mm eyelenses



The British S6 mask can be donned instantly and will seal on a three-day growth of beard.

are fitted with gelatin anti-dim inserts as were German masks in WW2. The Model ShMS may be found outfitted with the same features as the communications mask.

The British S6 mask is an excellent piece of equipment. This mask provides good vision and is so resistant to fogging there is no anti-dim kit issued with it. The S6 seals on the surface of the face, not the edge of the mask. Consequently, it will seal on even three days growth of beard while other masks require the wearer to shave daily. And to fit the S6 all one needs to do is to slip the harness over the head in a single motion and exhale to clear the inside of the mask. The inside of the mask has a very low volume which enhances peripheral vision and talking through the voicemitter.

A unique feature is the double wall construction of the facepiece. The outer and inner wall of the facepiece is separated by an airspace. The airspace is sealed and has a pressure relief valve for high altitude use. This construction makes the S6 more resistant to penetration by toxic chemical agents.

U.S. masks and others have to be covered with an impermeable butyl rubber hood to protect the wearer from slow poisoning through the facepiece. The British chemical protective suit is made with an attached permeable hood which allows for a more comfortable soldier since 30 percent of all body heat is radiated from the scalp. A kit is available which contains a microphone, a rubber hose and air line connectors which snaps on in less than a minute to convert the S6 for use by vehicle crews. The S6 is available in left- and right-hand versions and utilizes standard NATO screw-in filter canisters.

Emergency Mask—The standard NATO filter canister can be used as an emergency mask by placing the outlet of the canister in the mouth, pinching the nose shut with the fingers, and closing the eyes. This feature gives soldiers the capability to rescue several people who do not have masks from chemical incidents with their extra filter canisters.

How To Conduct An Unmasking Drill

It is just as important to know when to take your mask off, as it is to know when to put it on. Protective masks must be removed only if the leader of your group is sure there is no toxic vapor lingering in the area. Remember to avoid low areas where gas can collect.

If a chemical agent detector kit is available, perform all the tests for toxic vapors and liquids per the instructions that come with the kit. Then, if no toxic vapors are detected, have two people in the group remove their masks for five minutes. They should replace their masks for 10 minutes. They should wait in a shaded area so that the early pinpointing of the pupils of the eyes warning sign for nerve agent poisoning is not mistaken for the effects of bright sunlight. If these soldier/guinea pigs do not show adverse effects then have the rest of the group unmask. Though, everyone should be wary of the onset of chemical agent symptoms in each other.

If no chemical agent detector kit is available, then you must seek out high ground. Have two soldiers hold their breath and break the seal of their masks for 15 seconds while keeping their eyes open.

After clearing and checking the seals of their masks observe the two soldiers for 10 minutes in the shade. If they show no ill effects from toxic agents they can now break the seals of their masks and take two or three shallow breaths. Then they should reseal and clear their masks and again be observed in the shade for 10 minutes.

If they still show no symptoms, they should take their masks off for five minutes, and then remask and be observed for another 10 minutes. Now, if they are still OK the rest of the group may be ordered to unmask. They should continue to watch each other for symptoms.

Unmasking drills are a time consuming proposition, but essential for survival. If you don't have the time for the tests as explained, it is best to stay masked.

Remember to spread the risk of being a human guinea pig about the group for the sake of internal harmony. Use newcomers to the war zone first as these persons are least likely to have been previously exposed to toxic agents. Repeated exposure to small doses of various chemical agents either result in increased resistance or sensitivity which could botch the validity of these unmasking procedures.

Most gas masks are issued with canvas satchels to haul them about. Which is the problem with most masks. Since canvas satchels are not water, gas, tear, crush, soil, contamination, or soldier proof. The old German GM-38 mask of WW2 fame was issued with a tough waterproof metal can type carrier. And commercial industry grade masks can be ordered with a hard plastic case as an option. The point is, that if the mask does not survive the wearer will not either.

The carrier is what nixed the new XM-30 series mask for U.S. Army service. It was found that its full face eyelens could be crushed through the carrier by the weight of the head of a sleeping soldier when it was used as a pillow. Other than that the design of the XM-30 is sound and it has been adopted for use by the U.S. Air Force, Navy, and Marine Corps.

The Army modified the XM-30 into the

Fit And Test Your Chemical Protective Mask

THE mask is the right size if it sticks to your face when the head harness is completely loose and you inhale while blocking off the air inlets with your hands. The head harness is adjusted by holding the center patch on the top of the back of the head. Then pull the harness straps taut for a firm fit in this order: bottom first, top second, and middle last. Once fitted remove the mask and replace it in its carrier. To don the mask: open the carrier, pull the mask out, then place your thumbs inside the facepiece and grasp the head harness, bring the facepiece upward placing your chin in the mask, and pull the harness over your head. Clear the mask of bad air by covering the air outlet with your hand and exhaling. Exhale only lightly in very cold weather to prevent eyelens fogging. Test the seal of the mask by covering the air inlets and inhaling. Practice donning the mask daily, you must be able to mask in six seconds.

With your mask on: open a container filled with amyl acetate (banana oil). Dip a cotton swab in amyl acetate and pass it close to where the mask seals to the face, around the eyelens seams, and by the air inlets. Breathing normally you should not be able to smell anything. If you do, refit the mask. If you still smell bananas replace the filters. If this doesn't work try a new mask.

Note: Do not allow amyl acetate to touch the mask. It might cause damage to plastic and rubber parts.



An Army NBC specialist tests a soldier's M17A1 protective mask using a swab dipped in amyl acetate (banana oil).



Soldiers inside a camphor chamber crack the seals on their M17A1 masks as part of an exercise to prove the worth of the protective gear.

XM-40 replacing the full face eyelens with separate eyepieces similar to those on the M17 series masks. Both the XM-30 and XM-40 masks are fitted with drinking tubes and standard NATO filter canister mountings on both sides of the facepiece for use by left- or right-handed persons. Conversion kits are available for use of these masks by vehicle and aircraft crews.

The British Army is currently developing an advanced version of the S6 called the S10 which is being evaluated for use by the U.S. Army. XM-40 is experimental.

The S10 has all of the above features of the S6 and the XM-40 packaged in a design which is eminently suited to modern mass production techniques. An interesting feature of this mask is the circular eyelens which can be ground to the wearer's prescription eliminating the need for awkward corrective lens inserts used on other masks.

Currently, the U.S. military uses several different types of protective masks. The standard infantry mask is the M17 which is a rugged piece of equipment. It has two filter cartridges fitted into its integral cheek pouches. Changing the filters of this mask is a clumsy task which requires dexterity and training to accomplish in a respectable time without tearing the facepiece. The filters are difficult to breath through since like all U.S. masks the M17 is a monument to overprotection. The filters come with black (M13), gold (M13A1) and green (M13A2) connectors, the green connector filters are for combat and the black or gold are used for training and riot duty.

The mask is fitted with eyelens outserts which are like the tear-offs used by motor-

(Continued on page 67)

**THE BEST IS STILL
THE BEST**
One Solid Piece of Tool Steel
Handmade By Custom Knifemaker
CHRIS REEVE

MODEL:
JEREBOAM I
8 3/4" BLADE
W/ TEETH

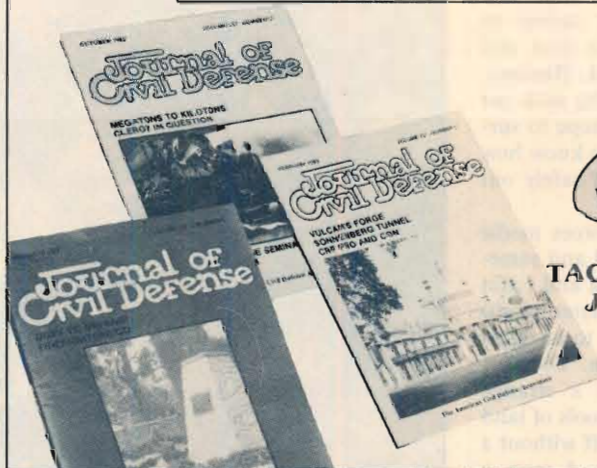
12 custom models to choose from
AVAILABLE NOW THRU YOUR LOCAL DEALER!

For information contact:
BLACKJACK KNIVES
21620 Lassen St.
Chatsworth, CA 91311
(818) 718-7010

The American Civil Defense Association (TACDA)

P.O. Box 1057 • Starke, FL 32091 • (904) 964-5397

"Preparedness — Protection — Peace"



*"America's Voice
For Disaster Preparedness"*

TACDA membership includes:
Journal of Civil Defense
TACDA Alert
voting rights
membership card
seminar invitations
etc.

Please enroll me as a:

☐ Regular TACDA Member (\$25)
or ☐ Send Free Information

☐ Journal Subscriber Only (\$12 yr.)

\$ _____ Enclosed

Name _____

Address _____

City _____ State _____ Zip _____

The American Civil Defense Association • P.O. Box 1057 • Starke, FL 32091

Land Navigation:

Don't Get Lost



A map, compass and protractor.

A map, compass, protractor and the skills to use them may some day save your life . . .

By Charles W. Sasser

tion of the earth's surface plotted to scale upon a flat surface. A scale of 1:25,000 or 1:50,000 means that one unit on the map equals 25,000 or 50,000 such units on the earth's surface.

When obtaining a map, make sure it is the military-type with a grid system super-

imposed upon it. This grid (a series of straight lines intersecting at right angles) furnishes you with a system of squares similar to the block system of most city streets. It makes navigating easier.

Maps come complete with their own operating instructions printed around the outer edges. Some of the more important items of "Marginal Information" are: the *bar scales*, located in the center of the lower margin; the *legend* in the lower left margin; and the *declination diagram* and the *contour interval note* appearing near the center of the lower margin.

The *bar scales* are rulers used to convert map distance to ground distance. Most maps have at least three scales measuring kilometers, statute miles, and nautical miles.

The *legend* illustrates and identifies topographical symbols used to depict some of the more prominent natural and man-made features on the map—forests, streams, buildings, roads. The symbols are usually color-coded, with each color identifying a class of features. On most standard, large-scale topographical maps,

The author, pointing, and a friend use a map and other tools of navigation while crossing Arizona's rugged Superstition Mountains. Great tracts of wilderness exist in the U.S. where you can get lost and die.

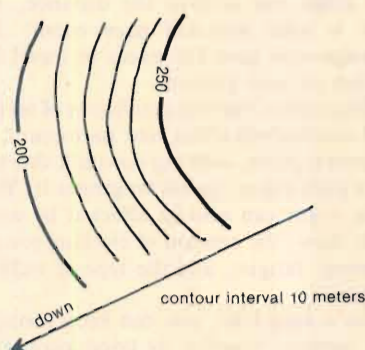


EACH year the nation's front pages report horror stories of outdoor enthusiasts who either perish or suffer frightful deprivations as a result of getting lost in the woods. Such stories reinforce the fact that great tracts of American wilderness exist where a lost hunter or hiker may stumble around for days and even die without being rescued. Hunters, trappers, hikers, and others who seek out remote and wild country and hope to survive in it owe it to themselves to know how to hike into wild country and safely out again.

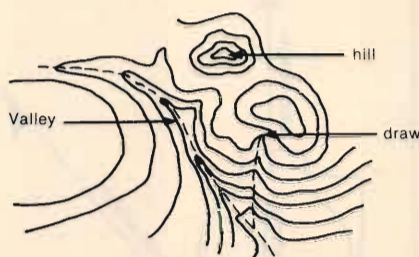
As a U.S. Army Special Forces medic frequently operating in isolated and sometimes dangerous regions of Asia and Latin America, I soon learned—and later taught—the principles of being able to navigate on land, in any type of terrain. Today, I would no more venture into a strange wilderness without the simple tools of land navigation than I would take off without a knife or cartridges for my rifle. A map, a compass, a protractor, and the skills to use them may some day save your life.

Topo Map—A topographical map of the region you plan to explore or hunt should be the first thing you pack when planning an expedition. Maps of almost any region of the United States may be obtained through the U.S. Geological Survey, Denver, Colorado 80225, or Reston, Virginia 22092. A topographical map is a presenta-

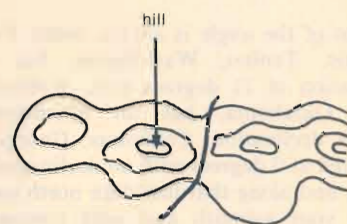
The spacing of contour lines indicates the nature of the slope. On most maps every fifth line is drawn heavier with the elevation given in either meters or feet above sea level somewhere along its length. This is the Index Contour.



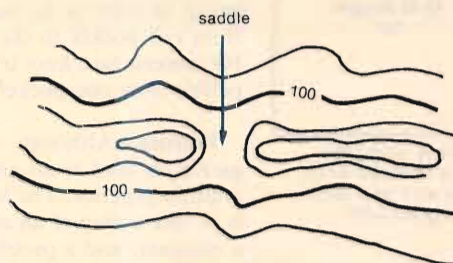
contour interval 10 meters



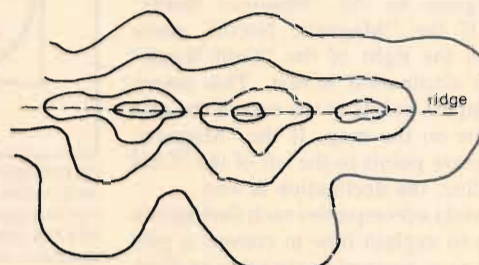
A valley, a hill and a draw; the contour lines point upstream in a valley.



Bottom of a hill.



A saddle between two hills.



A ridgeline.

the following colors are used: **Black**—cultural or man-made features; **Blue**—lakes, rivers, swamps; **Green**—vegetation such as woods, orchards, vineyards; **Brown**—relief features such as contours; **Red**—main roads, built-up areas, special features.

The *declination diagram* illustrates the angular relationship of true north, grid north, and magnetic north. It is important in navigating with a compass. We are primarily interested in the difference between grid north and magnetic north.

Important for determining the lay of the land is the *contour interval note* which gives the vertical measurement between adjacent contour lines. A contour line connects points of equal elevation. For example, a contour interval of 10 meters means that the earth rises or falls 10 meters between each contour line shown on the map. On most maps, contour lines are printed in brown, with every fifth line drawn heavier. This is the *index contour*; somewhere along its length its elevation is given in either meters or feet above sea level.

Elevation Relief—The spacing of contour lines indicates the nature of the slope. The closer the contour lines to each other, the steeper the slope. Shapes of contour lines and their spacings form terrain features, such as hills, valleys, ridgelines, saddles, draws, and slopes.

Orientation—In order to use a map, you must first orient it so that north on the map corresponds to north on the ground

and the map represents the terrain around you. There are two ways to do this.

If there are prominent terrain features nearby, you may simply hold the map open in your two hands with the upper (north) portion of the map facing away from you. Then turn your entire body slowly until the terrain features on the map correspond with the terrain features on the ground. The more terrain features you can identify, the more certain the orientation.

A more accurate way of orienting the map is with the compass.

Place a map flat on the ground with the compass on the declination diagram at the bottom. Align the compass index along the line marked *grid north* so that the compass is aligned north and south with the north-south grid lines on the map. Then rotate map and compass until the compass needle aligns itself with the line marked *magnetic north*. The map is then oriented.

Azimuth—In everyday life, directions are commonly expressed as "north" or "south" or "southeast," but such expressions of direction are highly inaccurate. They may, in fact, be all but useless if you are lost in heavily wooded terrain and must depend upon map and compass to find your way out to the only settlement within 50 miles. That's when it becomes necessary to use more precise measurements of directions called *azimuths*.

An *azimuth* is one of 360 horizontal angles measured clockwise from a north base line of 0 degrees or 360 degrees. An azimuth of 90 degrees, for example, is due east, while 180 degrees is due south, 270

degrees due west, and 0 degrees or 360 degrees is due north. You may find your azimuth on the map with the use of a protractor. A protractor is a coordinated scale measuring out the 360 degrees of a circle.

Say you are located at the junction of a creek and a river which you have identified and you want to travel northeast to a road intersection positioned in the upper portion of the map.

First, draw a straight line from your location to the road intersection.

Next, position the index crosshairs in the center of the protractor on the line. The north (0 degrees) marking on the protractor should point precisely to the north on the map. You may move the crosshairs on the line until you can align the protractor with the grid lines on the map to assure more accuracy.

Read your azimuth where your drawn line intersects the outer edge of the protractor circle.

Let's say the azimuth from your location on the river to the road intersection is 45 degrees. On most places of the earth, you will not be able to reach your destination by following 45 degrees on your compass. That is because of the angular difference between *grid north* on your map and *magnetic north* on your compass. According to the amount of that difference, called the *Grid-Magnetic Angle* (G-M Angle), you may miss your destination by one hundred feet—or a mile or more.

Bearing—The G-M Angle is determined by use of the declination diagram located in the map's marginal information. The

Don't Get Lost

amount of the angle is always noted. For example, Tenino, Washington, has a declination of 21 degrees east. Webbers Falls, Oklahoma, has an $8\frac{1}{2}$ -degree easterly declination. Columbus, Georgia, is located at 0 degrees with no declination. There, and along that meridian north and south, your azimuth and your compass bearing will be the same. Otherwise, you will have to adjust your grid azimuth by the amount of the G-M Angle in order to get an accurate compass bearing, also called a *magnetic azimuth*.

Declination may be either east or west. The direction is illustrated on the declination diagram by the "Magnetic North" arrow. If the "Magnetic North" arrow points to the right of the "Grid North" line, the declination is east. This means your compass points to the east of the grid north line on the map. If the "Magnetic North" arrow points to the left of the "Grid North" line, the declination is west.

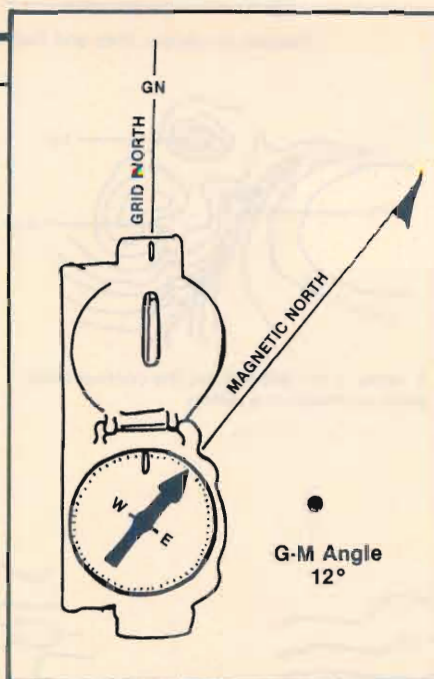
A formula accompanies each declination diagram to explain how to convert a grid azimuth to a magnetic azimuth and back again. A map with an easterly declination will instruct: "To convert a magnetic azimuth to a grid azimuth, ADD G-M ANGLE. To convert a grid azimuth to a magnetic azimuth, SUBTRACT G-M ANGLE." If the map has a westerly declination, it will instruct just the opposite. In other words, you will SUBTRACT where it says ADD and ADD where it says SUBTRACT.

Let's say you are on the Arkansas River at Webbers Falls, Oklahoma, where the declination (G-M Angle) is $8\frac{1}{2}$ degrees east. We've already established your grid azimuth at 45 degrees. SUBTRACT $8\frac{1}{2}$ degrees from your grid azimuth of 45 degrees in order to convert it to a magnetic azimuth. The answer is $36\frac{1}{2}$ degrees, which is the bearing you will follow on your compass in order to reach that road intersection.

For practice, what is your magnetic azimuth if your grid azimuth is 88 degrees with a 12-degree easterly declination? What is your grid azimuth if your magnetic azimuth is 198 degrees with a 4-degree westerly declination? (Answers at end)

Resection—But let's say you don't know exactly where you are, which would make it most difficult to obtain either a grid or a magnetic azimuth. You can determine your location if you can identify two separate and distinct terrain features, such as two hilltops or a saddle and a river, by a process known as *resection*.

First, take your compass and shoot a *magnetic azimuth* from your location to one of the terrain features. Then determine your "back azimuth," or the azimuth from the terrain feature back to you. Do this by adding 180 degrees to your magnetic azimuth if the azimuth is less than



Orienting a map with a compass using the declination diagram. A map is oriented when the compass index is aligned with grid north and the compass needle is aligned with magnetic north.

180 degrees; subtract 180 degrees if the azimuth is greater than 180 degrees. For example, if the magnetic azimuth is 37 degrees from you to the terrain feature, add 180 degrees to get a *back azimuth* of 217 degrees. If your magnetic azimuth is 194 degrees, subtract 180 degrees for a back azimuth of 14 degrees.

Take this back azimuth and adjust for the G-M Angle, in order to plot your location on your map. If the declination is $8\frac{1}{2}$ degrees easterly, follow the formula on the map and ADD the G-M Angle. Say your back azimuth is 217 degrees. Add $8\frac{1}{2}$ degrees to 217 degrees to get a grid azimuth of 225½ degrees. Remember, a *grid azimuth* applies only to your map, a *magnetic azimuth* to your compass.

Using your protractor, now draw a straight line from the selected terrain feature along your grid back azimuth, which, in this case, is 225½ degrees.

Now, follow this same process with your second terrain feature. Where your two lines cross on the map is your location.

Do not attempt to merely "follow the compass." Break the course down into legs. Shoot an azimuth to a terrain feature, walk to that feature, shoot a second azimuth, and continue this process, leg by leg, until you reach your destination.

Distance—Distance is an important factor in land navigation, especially at night or in heavily wooded country. *Pacing* is probably the most common method of measuring the distance you have traveled. One pace is equal to one natural step.

To determine your personal pace count, measure off a specified distance, usually one hundred meters, and walk it several times to see how many paces you must take

to cover the distance. Walk at a natural pace. Average out the number of paces by the times you walked the distance, and that is your personal pace count. The average man uses 116 paces to travel 100 meters on level ground.

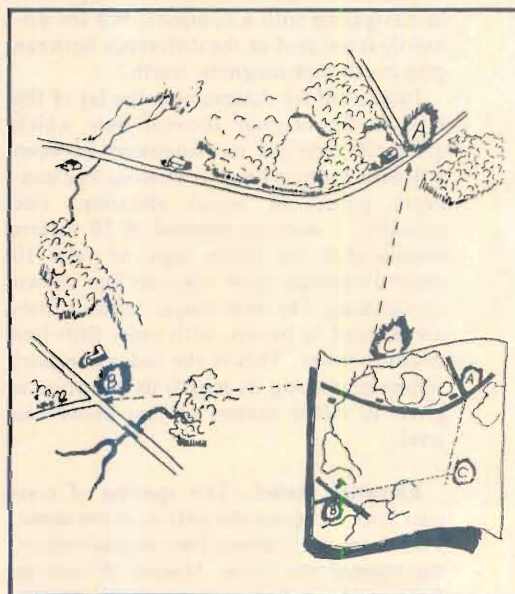
Remember, varying conditions of terrain and weather will affect your pace count. As a general guide, walking downhill shortens your pace count, uphill lengthens it. Your pace count can also be affected by wind, rain, snow, the amount of clothing you are wearing, fatigue, and the type of walking surface.

On a long hike, you can keep count of the distance traveled by tying knots in a string or cord or by transferring pebbles from one pocket to the other. After each 100 meters, tie a knot in the string or slip a pebble from one pocket to the other.

Practice—Although not difficult, navigating on land is an acquired skill which requires practice. The best way to practice is to take a map of an area you know well, a compass, and a protractor, and practice the basic skills of land navigation—reading a map, reading and converting grid and magnetic azimuths, following a bearing, resectioning, pacing.

Only by learning the skills of navigating in the wilderness, practicing them to become efficient, and then taking the tools of navigation with you into the field can you ever be assured that the newspapers' front pages will not be reporting your own horror story of getting lost in the woods.

(NOTE: Answers to practice questions: 76 degrees; 194 degrees.) ●



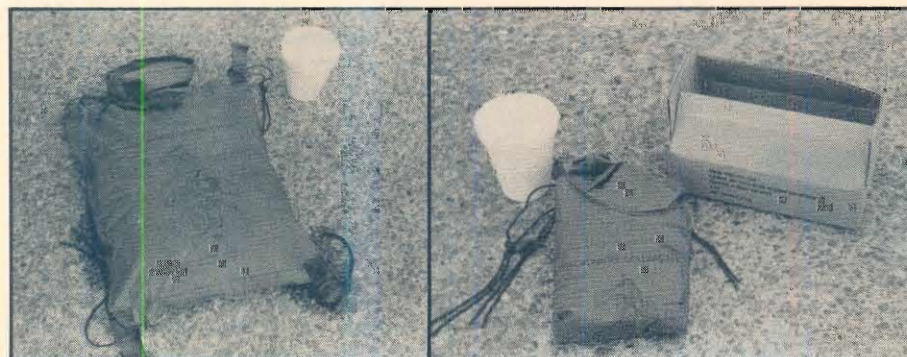
Resectioning to find exactly where you are. Locate two prominent terrain features on the ground and on your map (here, the road intersects at A and B). Shoot a magnetic (compass) azimuth to each terrain feature, convert to grid azimuth in order to coordinate on your map. Where the two azimuths cross on back azimuth (Point C) is your location.

G.I. Unissued:

Collapsible Canteen

Holds 5 quarts . . .

Staff Report



THIS military canteen and floatation bladder from SI is collapsible and very compact. It comes folded neatly in a box only a few inches wide and long and about 2 inches tall. When full, the canteen holds 5 quarts. When filled with air it can be used as a floatation device.

The perfect item for your outdoors excursion this season! Flexible rubber

bladder with nylon OD cover, water purification pocket, belt keeper and leg straps are included. Genuine G.I. unissued and new. \$24.95 plus \$1.50 S&H Instructions also included. SI, Dept. ASG, 18239 S. Figueroa St., Gardena, CA 90248; (213) 324-8855; outside California (800) 533-7415. ●

NEW VIDEO RELEASE



ANTI-TERRORISM: WEAPONS & TACTICS

Transports you into terrorist scenarios where quick wit and a ready weapon pay off—in **keeping you alive!** See exciting hostage releases, using live ammunition, plastic explosives and daring room-entry tactics. Includes special weapons and ammunition demonstrations and essential tips that **could save your life!** Filmed on location at Delta Fire Arms, Ltd. U.K.

INTRODUCTORY PRICE
Includes 10-Day FREE Trial
Money-Back Guarantee

\$38
VHS or BETA

Plus \$3.00 Postage.
Add 6% Sales Tax in CA. 4 to 6 weeks delivery.

Mail Check, Money Order to:
New & Unique Videos 2336-A7 Sumac Drive
San Diego, CA 92105



1-619-282-6126



ROAD STAR

They always land
point up!

**THE ULTIMATE
PROTECTION FOR
PRIVATE PROPERTY
OWNERS.**

Causes Severe Tire Damage.



**With Road Star
Trespassers
Will Get Your Point.**

Order Yours Now!

- 12 Stars only \$15.00
(Plus \$3.00 Shipping)
- 36 Stars only \$35.00
(Plus \$3.00 Shipping)
- 144 Stars only \$100.00
(Plus \$8.00 Shipping)

NOT SOLD IN CALIFORNIA

DIVERSIFIED MANUFACTURERS

P.O. Box 116, Castaic, CA 91310

Night Vision Devices

(Continued from page 22)

rently at the "hand-held" stage of development, the thermal-image viewer will probably soon be in use on military tanks and similar equipment and might even be available on the commercial market soon. If so, active equipment will have gone full circle to become passive in its own right.

Because of the limitations of current active systems, most people needing night vision equipment purchase passive devices. These viewers use available light rather than their own light source; city glow, moonlight, star light, or any other dim light will enable the user of the scope to see his surroundings.

The passive units were developed in the 1960s and are based around an image intensifier similar to a TV camera. The unit boosts the contrasts in the light and dark patterns from 75,000 to 85,000 times the brightness of the original pattern and project them onto a view screen. In addition to gathering light in the visible spectrum, passive devices are designed to be sensitive to infrared light so that they can detect active devices. Those who use active equipment should take note.

The passive system does have its drawback: it must have some light to work. On a cloudy night when the moon isn't out and no city lights are present, the passive scopes won't allow the user to see much of anything.

There are two generations of passive night vision devices, with a third generation in development.

The first generation is good provided it isn't necessary to view areas which are partly lit by electric lights, flares, or even tracers fired from your rifle. If you do view such an area, streaking and blooming can result which will cause parts of the screen to glow with after-images of the light



Varo's AIM model 9886 projects a dot on the target which is visible only with night vision equipment.

source for a few moments and the unit may actually shut down if things get too bright for it.

First generation equipment is still made because it does have some important plusses: it's rugged, it has one third more gain of vision in dark areas than does the second generation equipment, its resolution is sharper, and first generation equipment is less expensive than second generation. (AN/PVS-1, 2, and 3 are 1st generation scopes; AN/PVS-4 and 5 are second generation while AN/PVS-7 is the proposed third generation scope.)

Second generation passive devices are smaller than first generation and can be used to view partially lit areas without

blooming or streaking. Second generation equipment is well suited to use in cities or where electrical lights may be present in the viewing area.

Finally, there are hybrids of night vision equipment. One interesting combination of passive and active equipment is Varo's AIM/G2-3 Goggle Weaponsight System which uses passive goggles to give the user night vision and an infrared flasher unit mounted on his weapon to allow him to aim it by positioning an invisible dot on his target. Before long we'll probably also see divergent beam infrared lasers coupled with active viewers.

Batteries—Whatever equipment you purchase, get a lot of spare batteries. Most of the equipment—especially passive systems—is very sensitive to the voltage used with it. Trying to use too much power will quickly ruin an expensive night vision scope. Something else to keep in mind when shopping for a night vision scope: some of them have adapter units which allow you to use batteries available at the corner store rather than only the special batteries designed for the unit. This could be a really important plus from a survival standpoint and merits your consideration.

With night vision equipment, the old saying that "if you have to ask the price, you can't afford it" may well be true. A good passive unit is going to cost somewhere in the neighborhood of \$2,000 to \$15,000 while active vision scope will range from \$400 to \$2,000.

Men in dangerous nighttime situations have probably always wished they could see in the dark. Now it is possible to see and strike out at an enemy while you remain nearly invisible. The cloak of dark-



Excalber's AN/TVS-5, top, and AN/PVS-4 night vision scopes.

ness is quickly vanishing from those who have used the night to hide in. •

List Of Manufacturers Of Night Vision Equipment

Aimpoint, Dept. ASG,
203 Elden Street, Suite 302
Herndon, VA 22070
(Various types of electronic "red dot" scopes)

A.R.M.S., Dept. ASG,
230 West Center St.
West Bridgewater, MA 02379
(Scope bases for AR-15/M16, HK-91/93/94, and FN-FAL rifles which allows easy mounting of night vision scopes as well as standard 1-inch scopes)

Armstrong of America, Inc., Dept. ASG,
9162 Brookville Rd.
Silver Spring, MD 20910
(Night vision goggles, etc.)

Armson, Inc., Dept. ASG,
P.O. Box 2130
Farmington Hills, MI 48018
(Luminous inserts sights for firearms and Armson O.E.G. dot scope)

Bushnell, Dept. ASG,
2828 E. Foothill Blvd.
Pasadena, CA 91107
(("Banner Lite-scopes" electronic "dot" scopes for rifles)

Cherokee Gun Accessories, Dept. ASG,
830 Woodside Rd.
Redwood City, CA 94061
(Cheekpiece for use on military-style rifles with scopes.)

Colt Firearms, Dept. ASG,
Box 1868
Hartford, CT 06101
(Reflex Sighting System electronic "dot" AR-15 scope)

The Dutchman, Dept. ASG,
9071 Metcalf, Suite 158
Overland Park, KS 66212
(Infrared goggles and similar equipment)

Excalibur Enterprises, Dept. ASG,
P.O. Box 266
Emmaus, PA 18049
(Night vision goggles, scopes, etc.)

Lasersight, Inc., Dept. ASG,
P.O. Box 8594
Incline Village, NV 89450-8594
(Laser firearm sighting systems)

Litton, Dept. ASG
Electron Tube Div.
1215 S. 52nd St.
Tempe, AZ 85281
(Night vision goggles, passive rifle scopes, etc.)

RSR Wholesale Guns, Dept. ASG,
P.O. Box 5951
720 N. Great Southwest Pkwy.
Arlington, TX 76011
(Laser sighting system and mount)

STANO, Dept. ASG,
P.O. Box Drawer 6274
San Bernardino, CA 92412
(Night vision scopes, rifle sights, etc.)

Tasco, Dept. ASG,
P.O. Box 520080
Miami, FL 33152
(("Tascorama" electronic "red dot" scopes)

STUN! STAGGER! STOP!

Any assailant with palm sized instant protection telescoping steel coils.

Original patent made in West Germany. Gun blued. Flexible steel coils extend instantly with a flick of the wrist.

SPECIFICATIONS:

BLITZ: 5 1/8" closed, 13 1/4" open, 5 1/2 oz.

SIPO: 6" closed, 16" open, 10 oz.

30 DAY MONEY BACK GUARANTEE

BLITZ: \$10⁹⁵ PLUS 2.00 SHIPPING

SIPO: \$19⁹⁵ PLUS 2.00 SHIPPING

TO ORDER: Send check or money order to —



INCO

Dealer and volume buyer inquiries invited
(818) 842-4094

P.O. Box 3111, Dept. D07
Burbank, CA 91504



Includes pocket clip & hand strap

THE LITTLE FOLD-UP Model 600 has a cooktop big enough to take care of the heartiest outdoor appetites, yet readily breaks down into an easy-to-handle, 15 pound package. Constructed of tough 18 gauge steel plate, the Little Fold-Up comes complete with screw-in legs, six feet of stove pipe, and strong, woven polypropylene carrying bag that will stand up to years of rugged use.

ONLY \$92.50, shipped freight collect.

To order send check or money order to:

MOUNTAIN CHEF STOVE COMPANY

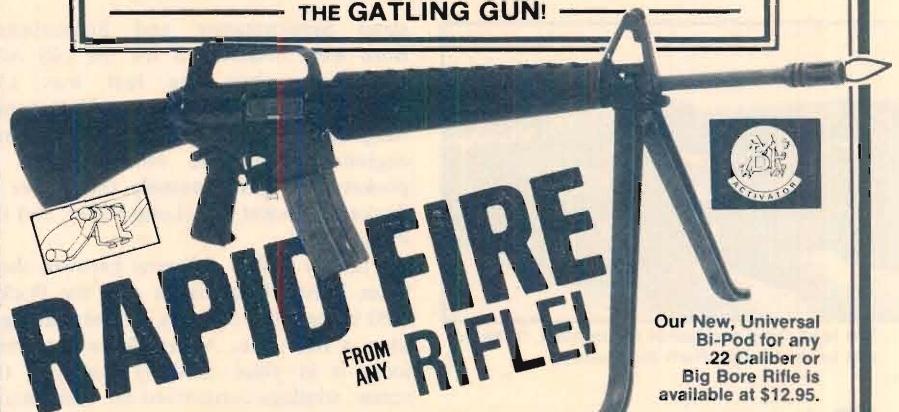
601 Mulberry Street, Grand Junction, CO 81505
(303) 243-3592



CAMP STOVES

Dimensions:
9" wide;
15" long;
7" high

NEWEST CRANK OPERATED RAPID FIRE CAPABILITY SINCE THE GATLING GUN!



WOULD YOU RATHER SPEND \$200.00 FOR A FEDERAL FIREARMS AUTOMATIC LICENSE?... PLUS THE COST OF A REGISTERED MACHINE GUN?... OR, SIMPLY ATTACH THE BMF ACTIVATOR, AND GET THAT VERY SAME RAPID-FIRE ACTION, FOR ONLY... **\$19.95!**

The BMF ACTIVATOR requires no permit or licence to BUY or USE. It will fire any semi-automatic rifle at the same rate of fire as a full automatic (up to 1200 RPM). Imagine emptying a 20 round clip in less than one second. It attaches or can be removed quickly without changing your rifle; simply attaches to trigger guard with two thumb screws. Copy of letter from BATF declaring it completely legal is sent with each ACTIVATOR.

If not completely satisfied, return with our retail sales slip within 30 days for a full refund. Believe us, it's a BLAST!

BMF ACTIVATOR, P.O. Box 262364, Houston, Texas 77217
If you cannot find the BMF Activator at your local dealers, you can order yours direct today by filling out this coupon:

NAME _____
ADDRESS _____
CITY _____ STATE _____ ZIP _____

Please rush me: _____ Universal BMF Activator @ \$19.95 _____ Bi-Pod @ \$12.95 _____ Both the Universal BMF Activator & Bi-Pod @ \$29.95

Enclosed find my _____ Certified Check _____ Money Order
Or charge it to my _____ Visa _____ MasterCard

Acct. No. _____ Exp. Date _____
Phone orders accepted on Visa, Mastercard, or C.O.D. (713) 477-8442

All states except Texas may call 1-800-527-2881

Add \$1.00 for Postage and Handling; Add additional \$2.00 for C.O.D. orders

Little But Tough:

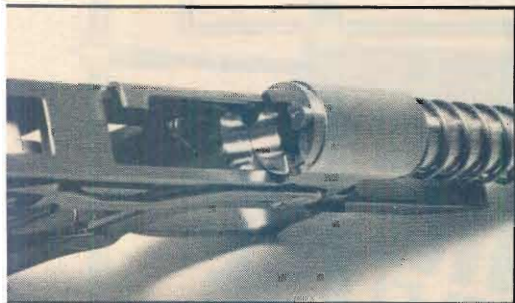


The Pocket .380, like all Detonics guns, is made of stainless steel. It is lightweight, small yet fits your palm well.

Pocket .380

One of the last of the famed stainless steel offerings by Detonics, this little handgun, with the right loads, can be a good defensive weapon . . .

By Phil Figueroa



The feed ramp and barrel are ramped, throatened and polished right from the factory.

THE DETONICS POCKET .380! Billed as the "sister" of the world's smallest production 9mm Parabellum pistol, the Pocket 9, this little stainless steel handgun followed a succession of well-received pistols by a very dynamic Bellevue, Washington-based company.

I was fortunate enough to have tested one of their original pistols shortly after Detonics Firearms Industries was founded in 1976. That model, a scaled down version of John Browning's famed 1911-A1 Colt, was later named the Combat Master. Like they claimed, it was the smallest production .45 ACP around, and with even warm loads, it would bite the hand that held it.

A number of accessories were introduced in later years, along with their full-

sized Servicemaster and Scoremaster. Both were chambered for the .45 ACP cartridge, while the last was also chambered for the massive .451 Detonics Magnum. It wasn't long before their engineers introduced other versions of pocket-sized guns, namely the Power 9, Pocket 9, Pocket 9LS (Long Slide), and the Pocket .380.

The key visible difference between these 9mm Parabellum pistols and the Pocket .380 is the latter features a fixed rear sight atop a flat slide. A tiny Allen set screw locks it in place, and by loosening the screw, windage corrections are easily made by sliding the sight to right or left, then



The Pocket .380 features a fixed barrel, thus accuracy is somewhat improved. The recoil spring is held in place by the barrel bushing.

locking it in with the Allen screw.

The sights offer a pretty good picture, even though they are quite small. Whereas the little nines weigh only 26 ounces empty, the Pocket .380, chambered for the .380 ACP (Automatic Colt Pistol) weighs only 23 ounces empty. Quite popular in the U.S., the .380 ACP is widely used all over the world. It is also known as the 9mm Browning Short, 9mm Corto, or 9mm Kurz (Short). Many European law enforcement agencies have used this cartridge as their standard duty round, but very few countries have ever adopted it as their official military cartridge.

A major reason for the military shying away from it is the low power it produces. The .380 cartridge accepts the same .355-inch diameter bullet as the 9mm Parabellum (Luger) round, although its case is .074-inch shorter (slightly more than 1/16-inch). That extra bit of powder space in the heavier walled, longer Luger cartridge is enough to boost velocity as much as 300 fps faster, enough to make a big difference.

Another drawback few seem to realize with this cartridge is the fact that full metal case loads are virtually worthless in it, yet this is the one most people shoot. Something like the 88-grain Speer Jacketed Hollow Point bullet, pushed along at around 1,050 fps (plenty safe in this gun), is more likely to perform as a defensive round. The Pocket .380 wasn't developed for combat shooting or target work, so if you're going to own a defense gun, then you should use defense-type ammo.

Relative to the double action Pocket .380 itself, it fit the author's fairly large-sized hand well, even though the little finger wraps about the bottom of the butt. Like the Browning-designed Colt, the mag release button is on the left of the frame, right behind the trigger. It does feature an ambidextrous blocked firing pin safety, which though very small, functions with a hard push of the thumb. When the safety lever is flipped upward, the firing pin is simultaneously moved forward out of the reach of the hammer and locked into place. This not only prevents the hammer from striking the firing pin if the trigger is pulled, but also prevents a discharge of the weapon should it be dropped or receive a



The Pocket .380 stripped to its basic components.



sharp blow to the muzzle.

A hooked and serrated trigger guard affords a good purchase where you might want to use two hands, such as in a serious shooting situation. The factory has also polished the feed ramp and barrel throat, so the gun will feed more reliably. While the magazine will handle only six rounds, you can carry one more in the chamber for a total of seven. Before inserting a loaded magazine, one should always slip the safety lever up into the SAFE position, so the red dot is covered. With the safety still on, point the pistol in a safe direction and pull the trigger. It will automatically drop the hammer (which is quite small, and therefore difficult to thumb back manually should you want to fire a first round single action).

The inertial firing pin is shorter than its housing and is held in place by a spring and will not protrude beyond the breech-face of the slide until it is forced out by the

impact of the hammer. The hammer can reach the firing pin only when the safety lock is in the off or "fire" position.

A fixed barrel double action pistol, the author found the Pocket .380 well made. Its soft matte sheen looks good. However, one of the worst features, in the author's opinion, is the great amount of strength required to pull the slide to the rear just to chamber that initial round. It's tough, believe me. When it comes to shooting and accuracy, the Pocket .380 digested an abundance of factory loads with gusto. It also proved to be reasonably accurate at defense ranges up to around 10 yards or so.

Everything considered, I found it to be a pretty good gun. As stated above, the effort required to work that slide is likely to sour a few people, however. If you are firing a lot of ammo and start off with seven rounds, then reload after six, you won't have to worry about the slide because you'll always have a chambered

round in it. The slide stays to the rear after the last round is fired, so if you change mags then, you'll find yourself pulling the slide back manually and releasing it to chamber the next round. ●

Detonics Pocket .380: Tech Specs

Model	Detonics Pocket .380
Action	Double/single action
Caliber	.380 ACP
Length	5 3/4 inches
Height	4 1/4 inches
Weight	23 ounces, empty
Barrel length	3 inches
Sights	Fixed
Capacity	6 rounds + 1 chambered
Material	Stainless steel
Finish	Soft matte finish
Safety	Ambidextrous firing pin safety
Suggested list price	\$459.95
Manufacturer	Detonics Firearms Industries
	13456 S.E. 27th Place, Bellevue, WA 98005

Chopping, Cutting:

El Machete!

In a pinch you can do just about anything with a machete...

By Craig A. Doherty

"E L DIABLO! El Diablo!" The cane cutter yelled as a huge black shape came roaring out of the smoke of the burning cane field.

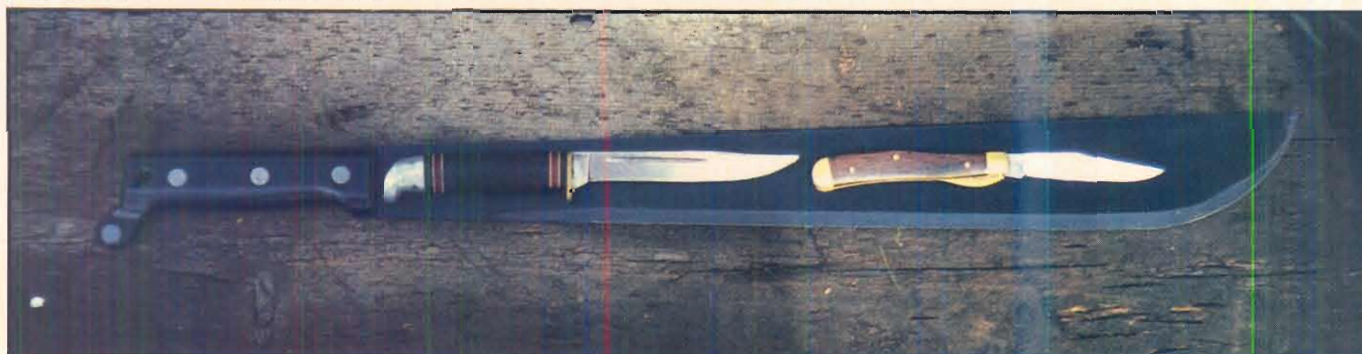
The black devil reared up on his hind legs showing his full 350 pounds of muscle teeth and claws. The cane cutters were trapped by their fear and stood directly in the apparition's path. As it came forward one brave cutter, machete in hand, leaped up and attacked.



This 17-inch blade machete can be easily attached to a pack for quick accessibility.



From left, the 13-inch Blade Bowie-style machete, 17-inch blade machete with copper wire wrapped handle, 18-inch blade general purpose machete, 28-inch blade extra long machete, 18-inch blade U.S. Army machete, 13-inch blade Bolo model, 12-inch blade small machete, and, horizontally, 20-inch blade African pattern machete.



The author's three-knife set: an 18-inch blade military issue machete with hunting knife and single-blade folder.

Five or six others joined him in the charge and the devil was soon dead. Hacked to death by the cutters' machetes. They later learned that they had dispatched a 350-pound black bear that had been munching on ripe sugar cane when the field had been set on fire. The Florida Fish and Game Department felt that, considering the circumstances, there was no reason to issue any citations.

The cane cutters had once again proven what the peasants of Latin America have known for centuries: in a pinch you can do just about anything with a machete. The machete can replace a small axe, a clever, a butcher knife, a scythe and, in a pinch, a shovel. As a weapon it extends your reach and definitely intimidates any would-be assailant.

In the more expected uses of the machete there is no more versatile tool. Granted it doesn't have any fish hooks in its handle and you can't get one in camo, although there is a current military model that has a parkerized 18-inch blade that is available from Atlanta Cutlery, 911 Center St., Box 839ASG, Conyers, GA 30207; (800) 241-3595. But I have better places for my fishing gear and don't wear a machete when I am hunting in camo. However, around camp it's indispensable. The following scenario will give you an example of just how handy a machete can be.

On a recent Deer hunting trip we planned to camp out, to be on our stands at first light without the noise of our trucks crossing our hunting turf. I drew the short straw and got to set up camp while my two hunting partners did a little last minute scouting. The spot we had chosen was nicely sheltered but a little small. I grabbed my 17-inch machete and quickly eliminated some over hanging branches, some long grass and some bushes that were in the wrong place. Next I set up the tent, and since the forecast called for rain during the night I used my machete to dig a ditch around the tent to divert any ground water. I then dug, with my machete, a small pit for the fire and lined it with rocks. All this digging had dulled the first four inches of the blade so I got out my stone. I use a long thin stone, and I moved it along the stationary blade, and quickly restored the edge on the carbon steel. Carbon steel is easy to sharpen but will not hold an edge as long as some of the stainless steels being used. I then begin gathering firewood.

The machete made short work of cutting the dead limbs I gathered to size. With the fire started and the coffee pot stationed on a flat rock next to the fire I started to get dinner ready. I set the machete aside and picked up its 12-inch companion and quickly reduced a bag of onions and potatoes to a mass of sizzling home fries. By the time my partners returned I had the potatoes almost ready and a hot bed of coals to sear the steaks over. After dinner when one of my buddies headed for the latrine he grabbed the 17-inch machete to



The author's 5-year-old daughter with the 28-inch blade extra long machete from Atlanta Cutlery.

dig and fill with. The next day I shot a good size Muley, and by the time we had venison steaks on the grill we had used both the 17- and 12-inch machetes.

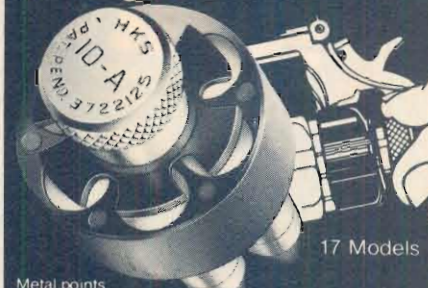
At other times I have used the machete to build lean-tos and when winter camping the 17-inch machete makes a great snow knife for igloo building.

Around the farm I constantly find uses for the machete. In the garden it is really an all purpose tool. In fact in Latin America it is primarily an agricultural tool. It cuts weeds and brush with ease. It harvests corn, grain and beans and finds heavy use chopping everything that goes into my compost pile, the finer the material the quicker it composts. If I need to cut and sharpen some bean poles I reach for a machete.

Selecting the right machete isn't really that difficult. Atlanta Cutlery for instance lists 9 models to choose from, ranging in price from \$4.95 for the 12-inch small machete and the 13-inch Bowie-style machete to \$10.50 for the 18-inch black U.S. machete. O.D. canvas sheaths run from \$1.95 to \$2.75 extra, based on length. My two favorites are the 12-inch machete which H. Morgan Smith, founder of the USAF Tropic Survival School and eight foreign training programs, calls the most useful tool the outdoorsman can own; and the 17 inch with the copper wire handle. The wire handle really improves your grip, especially when doing sweaty jobs like cutting brush. I would suggest, considering the price, that you try a couple. The ones with the wide blade tips give you more force when chopping and the 28-inch extra long really takes a strong arm to wield effectively. As the pictures indicate I have one of each, sent to me by Bill Adams, president of Atlanta Cutlery, I've been trying to decide which ones to keep and which ones to send back. Maybe choosing one is harder than I thought because I think I'll keep them all. ●

HKS REVOLVER SPEED LOADER

LOADS SIX CARTRIDGES INTO REVOLVER INSTANTLY
SUPER-FAST
SUPER-DEPENDABLE



Metal points hold cartridges securely in loader until knob is turned to release them!

17 Models

Over 2 MILLION sold to Sportsmen & Law Enforcement Agencies

Only

\$6⁹⁵ each

Guaranteed one full year

Leather Cases

Single, Double and Triple genuine leather cases available for all HKS Speedloaders. Black, Brown or Tan.

No. 105 Single \$13.95

No. 103 Double \$18.95

No. 102 Triple \$18.95 (No Flap)

New CORDURA CASE (NYLON-DOUBLE) \$8⁹⁵
—BLACK—
—CAMOUFLAGE—

Newest Model For H&R .22 L.R., 9-Shot



Model 22-HR

HKS Speedloaders Fit Nearly Every Revolver

- SMITH & WESSON .38, .357, 22-J, 22-K, .41 Mag., .44 Spec., .44 Mag., .45 Auto Rim, .45 Colt Long, .9MM
- COLT .38, .357, .22
- RUGER .38, .357, .44 Mag., Security Six, Speed Six, Red Hawk
- DAN WESSON .38, .357, .22 L.R., .44
- CHARTER ARMS .22, .38, .357, .44 Special, .22 L.R.
- H&R .22 L.R., 9-Shot

See Your Local Gun Dealer

HKS Products, Inc.

7841 Foundation Drive
Florence, Ky. 41042

DON'T MISS A SINGLE ISSUE SUBSCRIBE NOW! Prepare For Tomorrow!



Read AMERICAN SURVIVAL GUIDE Today!

American Survival Guide is for self-reliant people whose chief concern is protection of life and property in a turbulent world. Articles by experts provide information on how to meet threats posed by terrorism, urban violence, natural disaster, economic collapse, and nuclear conflict. Learn the how-to of

preparedness for survival with every issue. *American Survival Guide* features articles on food production and storage, self-defense and weaponry, toxic waste and pollution, nutrition and health. Every issue presents you with the technology, hardware, tactics and philosophy of self-reliance.

SUBSCRIBE NOW AND RECEIVE YOUR GUIDE TO SURVIVAL AT 27% OFF THE NEWSSTAND!

Mail this coupon to: **American Survival Guide** Subscription Dept.
P.O. Box 15690
San Jose, CA 95127-0690

- ☐ Please enter my subscription for 12 issues for only \$21.95
(I save \$8.05 off the newsstand)
- ☐ Please enter my subscription for 24 issues for only \$38.95
(I save \$21.05 off the newsstand)

Name _____

Address _____

City _____ State _____ Zip _____

This offer valid to U.S. and possessions only, foreign orders add \$6 per year postage in U.S. funds only. Allow 6-8 weeks for first copy to be mailed.
Offer expires December 31, 1987

SURVIVALIST DIRECTORY

THIS IS A CONFIDENTIAL listing of survivalists who wish to become known to others of like mind. *American Survival Guide* will accept properly coded mail and forward it to the coded addresses without charge. *American Survival Guide* accepts no responsibility for the contents or results of these confidential communications. Mass mailings are not permitted.

ASG 0701
Ft. Worth, Texas, "Old timers for survival" intelligence exchange and barter.

ASG 0702
Tacoma, Washington, Live Free member wishes to join or start survival group in Oly/Tacoma area. No Racists, Nazi's or "Ducks" Please.

ASG 0703
Mr. Alry, North Carolina, seeking patriotic members to form a combat survivalist team. Also would like to contact other such teams anywhere in the United States.

ASG 0704
Albuquerque, New Mexico, interested in networking with and forming a group with the "other survivalist" — Followers of Ruth Montgomery, Edgar Cayce, etc. or those interested in working with same.

ASG 0705
Pittsburgh, Pennsylvania, seeks contact with persons interested in forming a survival group in Allegheny and surrounding counties, and interaction with fellow Live Free members in western Pennsylvania.

ASG 0706
Central Montana, three persons would like to make contact with others to form group and possible retreat in upper Rocky Mountains of Montana with possibility of co-ownership of land. Also correspondence around the world. Couples, females are also welcome.

ASG 0707
Central Tennessee, young survivalist interested in starting a survival group in this area. No bigots, KKK or fanatics please.

ASG 0708
Edwards, Missouri, multi-talented? Compatible? Want to relocate? Couple established in self-sufficiency (debt free) would correspond on starting a group. No radicals.

ASG 0709
Tri-Cities, Washington, Christian family seeks contact or inter-communication with Christian survivalist groups. We need into to prepare ourselves.

ASG 0710
Hixon, Tennessee, long time Christian survivalists, man and wife would like to relocate with someone who has a farm, ranch, etc. away from the cities. We are not drifters, bums or freeloaders, have much to offer.

ASG 0711
Franklin, Kentucky, would like to contact serious survivalists in Kentucky/Tennessee area. Interested in any information pertaining to survivalism and self-sufficiency. Promise to respect privacy. Attention all arm-chair survivalists, get up and write! Your knowledge could someday save lives. If you are not in Kentucky/Tennessee area, write anyway, I will reply to all. Kooks, crazies, etc. save your stamp.

ASG 0712
Southwestern Pennsylvania, physician survivalist inter-

ested in contacting other survivalists or survival groups, particularly in the Butler County area. No racists.

ASG 0713
Madison, Tennessee, 26-year-old former soldier in U.S. Army, backwoodsman, "wants to hear" from Australian survivalists, active duty soldiers serving Great Britain, veterans loyal to the crown with similar interests in survival skills, wildlife, etc., for correspondence.

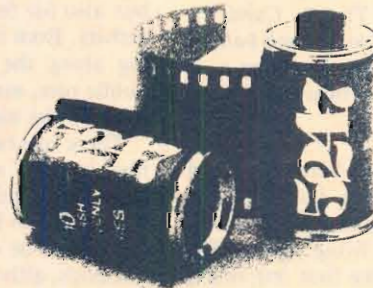
ASG 0714
Florida, South Georgia and Alabama, serious survivalist group to begin serious training this summer. Need groups and individuals from Florida, Alabama and Georgia. Instructors needed also. No experience needed for members. Serious survivalists only need apply. No kooks or neo-nazis.

Address response letters as follows:

America Survival Guide
ASG 0000 (Code Number, As Above)
2145 West La Palma Avenue
Anaheim, CA 92801

Your letters will be forwarded to persons listed within two days of receipt. *American Survival Guide* accepts no responsibility for loss or delay of inquiry letters. Contact letters that do not carry the appropriate code number will be discarded. Those who wish to be added to the directory listing, please send names and addresses to *American Survival Guide*, 2145 West La Palma Avenue, Anaheim, CA 92801. The listing is free. ●

35mm Color



Prints and Slides from the same roll

Kodak MP film . . . Eastman Kodak's professional motion picture (MP) film now adapted for still use in 35mm cameras by Seattle FilmWorks. Its micro-fine grain and rich color saturation meet the exacting standards of the movie industry. With wider exposure latitude, you don't have to be a pro to get great everyday shots or capture special effects. Shoot in low or bright light from 200 ASA up to 1200 ASA (with our high speed 5294® film). Get prints or slides, or both, from the same roll. Enjoy the very latest in photographic technology with substantial savings.

Kodak 35mm and 5294 are registered trademarks of the Eastman Kodak Company. ©1984 Seattle FilmWorks

INTRODUCTORY OFFER

☐ Rush me two 20-exposure rolls of your leading KODAK MP film — Kodak 5247® (200 ASA). Enclosed is \$2.00. I'd like to be able to get color prints or slides (or both) from the same roll and experience the remarkable versatility of this professional quality film.

Limit of 2 rolls per customer.

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Mail to: Seattle FilmWorks
500 Third Avenue West, P.O. Box C-34056
Seattle, WA 98124

Offer does not include processing. Process to EN-11

Staying Afloat:

Water Survival Basics

Each year more and more people take to the water as a form of recreation . . .

By David Marshall Brahosky

THE following is an excerpt from the *San Francisco Chronicle*, reprinted here by permission. Names and actual locations have been changed to spare the family of the victim any further grief.

Victim Identified in Kings County
The Kings County Sheriffs Department yesterday identified the remains of a man found on the bank of the Tule River as 39-year-old Russell P. Curtis of Tipton. Curtis was last seen clinging to a beach ball as he was swept down river over a week ago, according to investigating officers.

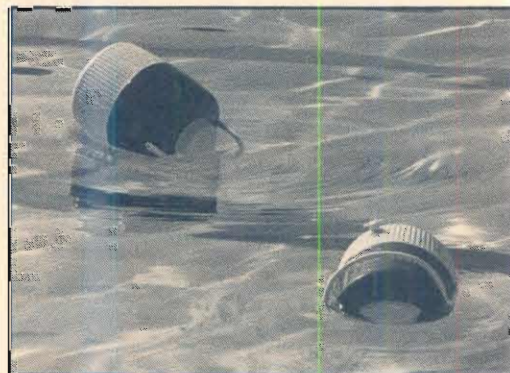
There are two tragedies here. First and foremost is the loss of a husband and father, and a family now struggling to overcome grief and go on living again. The second tragedy is that the first one might have been prevented.

Each year more and more people take to the water as a form of recreation. Many are first timers, new to fast boats, backcountry adventure and open water fishing. In the uncertain future, many more may do so as a means to gather food. Without a working knowledge of water survival basics, variations of the newspaper clipping reprinted here will be an all too common sight.

This article is not only meant for the experienced seaman and pleasure boater, but also for the many newcomers to such activity. Even those who simply enjoy walking along the beach, or fishing from a public pier, may one day be called upon to come to the aid of a drowning victim.

There are two equally important priorities in such an emergency. They are to keep the head of the victim out of the water, and to keep him or her afloat till a rescue can be effected. This is easier than it sounds, although to a first time rescuer, in the clutches of panic and indecision,

An ice chest supporting 380 pounds of adults, despite being half full of water.



Drink jug at left is empty and can be tossed a considerable distance. Jug on right (foreground) is full of water.

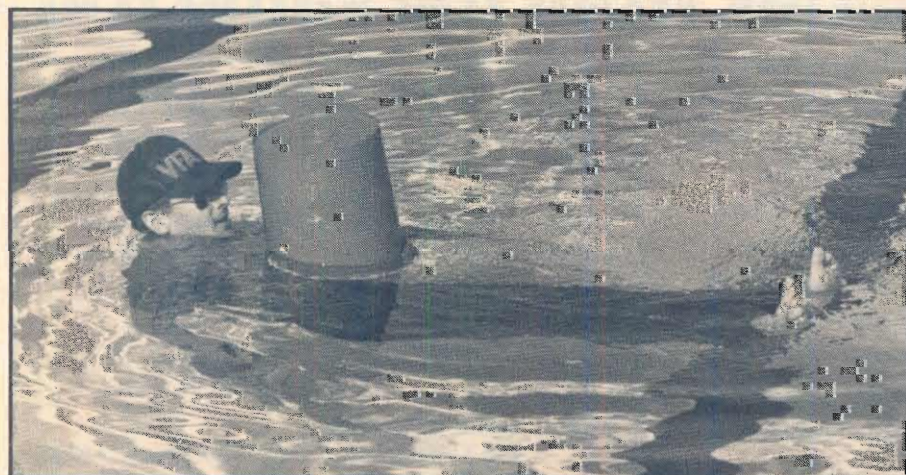
difficult to remember. An hour in a shallow cove or supervised swimming pool practicing the techniques outlined here will go a long way toward preparing one for such an event.

Stage one of a rescue is helping the victim stay afloat till he or she can be safely removed from the water. I say safely because some well meaning rescuers have themselves been pulled under and drowned by the original victim. Instinct #1 of that victim is to grab hold of anything in his panic that he thinks will save him. If that thing is an untrained swimmer, and the victim any larger than a small child, two deaths may well result. You can however, use that "clutching" instinct to your advantage as a rescuer.

Found in areas people use for water recreation are common items that will support the weight of even a large person in the water. Such items as cold drink jugs, styrofoam and molded plastic coolers, buckets, and boat fenders are all effective floatation devices.

Shown in the accompanying photographs is one of my Navy shipmates, a man who is 6 feet 2 inches tall and weighs about 190 pounds. All the items pictured here kept this man comfortably afloat in a swimming pool. They are typical of the many brand name items that can be bought or rented almost anywhere.

Most common is the ice chest. After



This man has the handle of an empty bucket hooked to his belt. His hands float easily at his sides.

most of the pictures for this article were taken, I discovered that the chest had shipped water and was almost half full during most of the shooting. Neither he nor I were aware of this at the time. Yet it still supported the weight of two grown men in the water with ease. The lesson? Even if that ice chest is half full of food, sodas, or beer and ice, if seconds count, don't even bother to unload it. Get it in the water. The sooner you can arrest the panic of a swimmer in trouble the better. Often-times the victim will thrash him or herself into exhaustion and be unable to hold onto whatever flotation device has been thrown to them. Not only can it be used for flotation, it will also serve as a tow device that will keep you at a safe distance from the rescuee.

It's important that whatever object used in the rescue attempt have a handle or be easily grasped. In the case of the late Russell Curtis, either someone threw a beach ball to him when they realized he was in trouble, or he simply happened to be near it in the water at the time. We'll never know. A would-be rescuer should remember this incident, and remember also that a large round plastic ball is not an easy thing to hold onto in the water even in the best of times.

It was found during our swimming pool evaluations that the best devices of those tested were the 5-gallon bucket and the 3-gallon cold drink jugs. These were easy to hold onto, being small enough to clasp to the chest or hold in both hands under the chin. They did, however, make swimming any distance difficult.

It was also found that there is no need to empty this item either.

During the first 45 minutes of testing, the drink jug was used half full of water. As an additional experiment, I then filled the jug completely, replaced the lid, and managed to throw its 25 pounds 40 feet to



The children in this family are outfitted with life preservers whenever they go on an outing near the water.

A two-person fishing boat with five life saving devices in it. Can you spot them?



my companion. A non-athletic or small statured adult, and young people as well, may want to take the few seconds needed to empty one of these containers should it need to be thrown any distance. It's important to remember that even when full, **THIS ITEM WILL SUPPORT THE ENTIRE WEIGHT OF A LARGE ADULT IN THE WATER.**

The big bucket pictured is typical of similar articles found aboard most boats for such things as stowage of anchor line, bait, fishing tackle, or even used as a makeshift cooler. With the lid in place, or even inverted in the water without the lid, this was the most buoyant device of all the ones pictured.

It's flotation properties, as well as the drink jugs, can be enhanced by attaching it to your clothing. This can be done by simply buckling your belt through the carry handle. This allows the hands to be freed for such things as grabbing a rescue line or pole. Or, in the case of a sinking or otherwise stricken vessel, the needed mobility to operate flares, spread dye marker, or use other signalling devices.

Falling Overboard—But what happens if you should fall overboard from a boat you've been invited aboard for, say, a party? Or an evening cruise with friends? And no one sees you or hears your cries for help? There you are, adrift, scared, the

lights of the boat receding in the distance, the shoreline far away or maybe not visible at all. It's up to you to remain afloat until someone realizes you are missing and a search started. And what do you use as flotation till then? You're wearing it.

I learned my water survival basics in Orlando, Florida, at the Navy Recruit Training Center (boot camp). I practice them often because I'm still on active duty and often go aboard aircraft carriers for extended deployments. Most of the time, I work on the flight deck around fighter jet exhausts 90 or so feet above the water. At all times I wear a sophisticated flotation vest with built-in, rapid CO2 inflation device, strobe light for night rescue, (commercially known as the "Firefly"), whistle, and a dye marker. I know that a fall from such a height can cause serious injury and also render my flotation vest unless should the uninflated air bladder rupture on impact.

If that happens, I can take immediate action to remain afloat by using my clothing. Trousers, made from natural fibers,

(Continued on page 76)



This is one type of snorklers vest that can be found in most dive shops. A mouthpiece inflates the vest quickly if the CO2 valve fails.

Sonora:

Navy Desert Survival Training



The author and his teammate check their gear before participating in the Navy's Desert Environment Survival Training.



ABOVE — U.S. Navy Petty Officer Greg Dougherty demonstrates the proper use of a signaling mirror.

It was hot. We were told the air temperature was 94 degrees and the ground temperature was 118 . . .

By Richard B. McSwain

PHOTOS BY RICHARD B. McSWAIN AND GREGORY D. DOUGHERTY



LEFT — Example of a transpiration bag.

RIGHT — Example of a vegetation still.



BELOW — Example of a solar still.



THE time was 0400, on a cold damp morning in San Diego, California. I awakened to the shriek of my alarm clock, screaming to be shut off. The desire to silence the infernal machine and roll over for a few more hours of sleep was great, but this was the day I had anxiously been waiting for. This was the day I was to attend DEST.

DEST is the acronym for the Navy's Desert Environment Survival Training. The training is conducted by the Fleet Aviation Operational Training Group, Pacific Fleet, headquartered in San Diego.

Training consists of one half day of desert indoctrination in the classroom, and two days of practical application in the Sonora Desert, located in El Centro, California.

I was to report for classroom training by 0530. When I arrived, a few other students were already there, trying to catch a little extra sleep. I found the duty desk, and reported in.

About 0535, we were taken to a classroom, where we filled out a medical history questionnaire. Everyone was through by 0600, and we were given a 30 minute break.

Most people took their break in the junk food machine area. We looked like condemned prisoners, consuming our last meal.

At 0630, the instructors entered, introduced themselves, and briefly described what the course would consist of. They said we would listen to a little advice, collect some water, make camp, take a couple of short walks, and have a real good time. It sounded good so far.

Through the course of the lectures, we learned methods to procure water that seemed the equivalent of squeezing blood from a stone. We learned about solar stills, a pit dug in the ground, and covered with a sheet of plastic. The heat caused by the sun shining through the plastic virtually sucks the moisture right out of the earth. We learned about transpiration bags, and vegetation stills too.

A transpiration bag is merely a large plastic bag, placed over a living bush or shrub, with as many leaves or other foliage as possible going into the bag. The open end must be tightly fastened around the branches. In just a little while, the natural processes that plants undergo, releasing moisture and oxygen to the atmosphere, will be put into high gear, due to the greenhouse effect caused by the bag. The moisture the plant gives off will condense on the inside of the bag, and drip to the bag's lowest point.

The vegetation still is a variation of the transportation bag, and works on the same principle. If you were not able to find enough shrubs to use the bag method, you could pick grass, flowers, cacti, or any other vegetation that might be at hand. Put it inside a large plastic bag, and prop up the bag by putting a stick inside of it. Put the bag on an incline, so that the mois-

ture that forms on the inside of it will run down hill into a clean spot with no vegetation, so that it can be collected and saved for later use.

I found both these methods preferable to a solar still, as they took less effort to construct, and produced more water.

Just before lunch, we were taken to the gear issue area. Our equipment would consist of a web belt, fanny pack, two canteens, a signal mirror, and a whistle. After getting outfitted, we were once again allowed to converge on the candy machines, like a swarm of locusts on a wheat field.

Then we boarded the bus, and set off in search of the desert. Our route took us up into the Laguna Mountains, on San Diego's eastern border. The mountains were cool and green. Then suddenly, as if we had just turned the page of a travel book, we crossed the Laguna Summit, and started our descent. The mountains quickly faded into high desert, with lots of mesquite, cactus, and sage brush. But this too, soon faded, to low desert, with lots of sand, rocks, and little else.

The heat rolled in like a blast from a bake oven. When the bus stopped, so did any air movement.

It was hot. We were told the air temperature was 94 degrees, and the ground temperature was 118. I believed it.

I was starting to have doubts about how easy this course had sounded while sitting in a cool classroom in San Diego sipping my morning coffee.

After piling off the bus, we were introduced to what was to become our best friend. The water buffalo. A water buffalo is a large water tank, mounted on a trailer. We were told we could fill our canteens here whenever we wanted, and that from here on out, it would be our rendezvous point.

After topping off our canteens, we were paired off into two-man teams. Each team was issued a large canvas bag, containing four pieces of parachute, two shovels, some nylon line, and a few plastic bags.

Setting Off—Then we set off on our first hike. It was a short one, actually, but the heat made it seem like a marathon. We hiked down into a flat draw, where we were told to construct our water collecting devices.

We built our vegetation still first, since it was the easiest, and then put up our transpiration bag. By the time we finished digging the pit for our solar still, we noticed we already had collected about two ounces of water from our vegetation still, and moisture was starting to form in our transpiration bag. We finished our solar still, and took a short break while we finished off our first canteen of water.

A little while later, our instructors came over and checked the progress we had made collecting water. Every team had at least one functioning collection device.

Then we hiked over to an area where the instructors had built examples of water

collection devices, shelters, and ground-to-air rescue signals.

Shelters varied from quick temporary shelters consisting of nothing more than a piece of parachute draped over a bush to create a little shade, to more elaborate ones, consisting of a pit about 18 inches deep, with at least two layers of parachute material suspended above it for a roof.

The reason for digging a pit is because the temperature can be as much as 25 degrees cooler 12 inches below the surface. It also allows the roof of the shelter to be high enough above the floor to sit comfortably, yet still close enough to the ground to cast a shadow at all times of the day.

We then hiked back to the water buffalo, refilled our now empty canteens, and then proceeded to a large Tee Pee-type tent that the instructors had constructed from a full parachute.

Everyone welcomed the shade and opportunity to sit and drink while the instructors provided us with more survival tips, such as edible plants, animals, and how to start fires.

One of the most ingenious (and easiest) ways to start a fire I have ever seen was shown. It consists of stuffing a small piece of common steel wool (like that found in any kitchen) into the bottom of your flashlight. It's light, highly compressible, and can be forgotten until such a time as it is needed.

To start a fire, gather some tinder, and some kindling, and have it ready to go. Remove the steel wool and batteries from your flashlight. Pull and stretch the steel wool with your fingers until you have a piece about six inches long, and about as thick as your finger. Put the steel wool next to your tinder, and sit the bottom of one of the batteries on one end of it. Stack the other battery on top of the first, just like it was in the flashlight. Then touch the loose end of the steel wool strand on the top of the battery. The steel wool will immediately burst into a shower of bright hot sparks. Let the wool fall into your tinder, give it a couple of puffs of air, and presto, instant fire.

After a few more demonstrations and discussions, we were given our evening meal, to be eaten later. The meal was a standard GI MRE. Then we were sent back to check on our water collection devices.

My transpiration bag and vegetation still were quite successful, but my solar still left much to be desired. The water we collected tasted strongly of the plants we had collected it from, but it was drinkable, and would have definitely been better than no water at all.

After disassembling our collection devices, we were sent to another area nearby to construct our shelters that we would sleep in that night.

My partner and I selected our shelter site, and started digging. The sand was relatively soft, and the digging was easy. For about the first six inches in depth, that

is. Then we hit a layer of compressed sand that was almost as hard as a rock. We dug on anyway, and eventually succeeded in excavating a pit about eight feet square, and about 18 inches deep.

We tied one end of our parachute to a sage brush, and used rocks to support the other end about 12 inches above the ground. We tied another piece of parachute 12 inches above the first, to provide additional insulation from the sun.

Even though it was as hot as blazes right now, we agreed to leave enough extra chute material along the sides of our shelter so we could close off the openings if the night got cold. This turned out to be a wise decision, because the wind really picked up and started to blow after dark. It never really got cold, but the wind did blow a lot of loose sand all over the place. The next morning, we watched the students who had not prepared for the wind excavating themselves from their pits, which had become partially filled by the blowing sand.

We made improvised sleeping bags from parachute material, by folding it over and over, one gore (gore are the triangular panels that parachutes are made of) to the next. Then a large overhand knot is tied between the small end and the large end of the chute, depending on the length of the bag desired. The top is rolled down like rolling up your cuffs, and you slide down into the bag from the top opening. It's quite effective for keeping body heat in, and spiders and scorpions out.

Finally, after a long hot 12-hour day, our sleeping accommodations were complete, and it was time to prepare our evening meal, which would consist of an MRE.

MRE stands for Meal, Ready to Eat, and is the new replacement for the infamous C rations. While higher in nutrition than foraged foods, I doubt that they are any more palatable than snake stew, or rodent soufflé, which were the alternatives.

Having opted for the MREs, my partner and I decided it would be worth the trouble to start a fire and warm them up. We dug a pit, gathered some wood, and cooked our supper. Surprisingly, we were the only ones to hear dinner.

By the time we had finished dinner, the sun was setting, and we had time to sit back and enjoy the cool of the evening, as we watched the cook fire burn itself out.

This was not the end of the day's activities, however. In less than 30 minutes, we had to join the rest of our classmates at the water buffalo. We would be going on a four-kilometer hike.

On our way to the meeting place, one of the students discovered a rattlesnake. It served as a harsh reminder that this was not all fun and games, and had the potential for becoming deadly serious at any



Cooking the night's meal, an MRE, over an open fire.

time. The instructors captured the snake, and removed it, to be released unharmed a safe distance away from our camp.

After topping off our canteens, we were led off in columns of two, into the black void of the desert at night. Eventually, the moon rose, and we acquired enough night vision that we could walk without tripping over every little rock in our path.

We walked about two kilometers, and when we came to the top of a large hill, we were told to sit down and face the way we had come from.

Other instructors, who had hiked out in the opposite direction, then demonstrated night signaling devices and methods, including a regular flashlight, the spark caused by striking a match, and the reflection of the moon off of a signal mirror.

Then, to demonstrate nighttime land navigation, a flashing light was turned on back at camp, and our two-man teams were sent back at five-minute intervals.

It sounded easy, but the light was only visible from the peaks of hills, so you had to pick a landmark, navigate to it, climb the next hill, pick another landmark, and continue.

Back At Camp—Once everybody made it back to camp, we topped off our canteens at the water buffalo, and were then allowed to crawl into our shelters to try to sleep.

You would think that after an 18-hour day, 12 hours of which had been spent in the desert, digging holes and walking and hauling, that sleep would come easy. Even after all that, most of us found it difficult to sleep in our pits, lying on the hard ground, with rocks poking and proding into every soft part of our anatomy. And in addition to this, was the added discomfort from aching muscles, hurting feet, and sunburned hands and faces.

Eventually I dozed off to sleep, only to hear the signal to wake up and get out of bed, in what seemed like only a few short minutes since I had gone into my shelter.

Quite to my amazement, when I checked

my watch it was 0600, and I had actually been asleep for a couple of hours.

After crawling out of our sleeping bags, everyone carefully checked their boots and clothing before putting them on, to insure that no scorpions or other creatures had decided to nest in them for the night.

Our first task of the day was to disassemble our shelters. We repacked our chutes into the bag, scattered the rocks, and filled in the pit that had been our

home. In just a few days, there would be no sign of our intrusion into the desert.

At 0730, we were to meet at the water buffalo one more time, for a four kilometer day hike.

By 0800, we were all ready to venture off. We hiked down a dry wash, with our instructor pointing out the many types of fauna and flora indigenous to the area as we walked. We saw jack rabbits, lizzards, and many types of small birds.

We were told about a plant called the Mormon Tea plant. It's called Mormon Tea because it contains no caffeine. It does contain an antihistamine, which can help relieve congestion and provide a quick pick me up. The effects can also be obtained by chewing the needles.

After hiking about two clicks, we climbed another hill, and looked back towards camp to observe some day signals.

We witnessed flashes from a signal mirror, and the smoke from a fire fueled by green vegetation. Both were quite visible from extreme distances.

We again paired up, and navigated back to camp. It was much easier following the column of smoke during the day than it had been following the flashing light at night.

Once everyone had returned to camp, the instructors passed out critique sheets and asked for the students' inputs, comments, and suggestions.

Everyone was unanimously impressed with the course, and with the instructors as well. We all felt that we would be able to survive becoming suddenly stranded in the desert. Maybe not in total comfort, and definitely not for an extended period, but long enough to signal for help and safely wait for it's arrival.

After thanking the instructors, we all filled our canteens for the last time. Probably more from habit than from necessity, since we would be home in a few hours.

Then we all boarded the burs, and waited to begin the long hot ride back to civilization. ●

Gas Masks

(Continued from page 49)

cycle racers. The outserts make the mask more resistant to contamination by chemical agents as well as provide a quick means of clearing outside of the eyelens if they become dirty. The M17 comes in three versions M17, M17A1, and M17A2; the M17 is the basic mask. The M17A1 version has a drinking tube and artificial respiration tube. In the M17A2, the artificial respiration tube has been deleted since it was wholly ineffective. The M17A2 also has an improved voicemitter which provides clear speech while being more resistant to cracking. The M17A2 masks will gradually replace the M17 and M17A1 in the Army inventory as they become available. This is an interim measure while the XM-40 completes its development and procurement phases.

The M24 aircraft and M25/M25A1 tanker masks are the same mask differing only in the type of microphone and microphone connector fitted. The canvas carrier of the aircraft mask is worn on the right, the tanker mask on the left. Essentially, the mask is similar to the M3 rat-faced infantry mask issued during WW2 with several modifications.

The mask features a full view single eyelens bonded into a Kops-Tissot type facepiece executed in black rubber. It is attached by a cloth reinforced rubber hose to a very hard breathing (but excellent protection) M10A1 filter canister. A connector fits on the canister which fits into the vehicle or aircraft collective ventilation system. The filter stays relatively clean since the mask is meant for operation with the vehicle ventilation system the majority of the time. An oxygen inlet fitting is available for high altitude aircraft use. This mask was originally issued with a grey rubber facepiece under the designation M14.

The Navy MK V and Army M9A1 masks are special purpose industrial grade masks. The MK V is used for the closed spaces aboard ship. It is very hard breathing due to its twin commercial style filters, and has a full-view facepiece that is prone to fogging.

The M9A1 mask was the Army standard issue infantry mask before the adoption of the M17 in the early 1960s. It is now used exclusively by Army and Marine Corps personnel engaged in chemical handling or decontamination operations. The Marine Corps version is called the M9 and differs from the M9A1 only in the construction of the canvas carrier. The mask looks like an M17 without the cheek pouches. It comes in a variety of sizes and in left- and right-hand versions. Its M11 filter canister combines easy breathing with great protection. Though the M9A1 has no voicemitter a soldier can aim a rifle through it, a feat impossible with the M17. ■

GENUINE EUROPEAN STILETTOS

Authentic old world styling • Stainless blades • Double locking action
Handle choice: Genuine stag, genuine buffalo horn or blackwood
Brass lined • Distinctive blade etching • Smooth action
German made (Kissing Crane)

Price includes shipping in the U.S. All others add \$5.00.
30 day money back guarantee.

Mastercard and Visa. Call (616) 754-6694.

Catalog with survival knives, butterfly and concealable knives, Apollo optics, Mag-lites free with order. Catalog \$2.00. Dealer inquiry welcome.

Price of knives: 3 7/8" closed \$14.99
4 1/2" closed \$17.50
4 7/8" closed \$19.99

When ordering state what kind of handle you want along with the size.

Great Lakes Distributing

600 W. Orange, Greenville, Michigan 48838; (616) 754-6694



OFFERING
My Hollow Handle
Survival & Combat Knife

8" 440 C Blade with
Saw Teeth That Work!
13" overall length. All
stainless steel
construction with
combat sheath.

\$225.00

R P KNIVES
Custom Hand Made Knives

By Robert Parrish, 1922 Spartanburg Hwy., Hendersonville, NC 28739
Phone (704) 692-3466. Send \$2.00 for catalog.



THE SURVIVAL MASTERS

The ultimate knife for the outdoorsman. Handmade by Saburo of Japan. Diamond edge tempered of 440x stainless. 14 1/2" overall length, 9" blade. Hollow die cast, sure grip handle. One is just right for you.

SM2 Great for underwater. Tempered serrated edge on top of blade tip, cuts wet rope or cable.

SM1 Rambo style, the first, the one most copied.

SM3 For all around utility. Good camping.

Pick the one you want. Just \$45 plus \$3 postage and handling. Catalog \$3.

R&E BUTLER DISTR.
P.O. BOX 154
MALAD CITY, IDAHO 83252

SUPPORT

ADVERTISERS

AMERICAN
SURVIVAL
GUIDE

SUPPORT

ADVERTISERS

SUPPORT

ADVERTISERS

SUPPORT

ADVERTISERS



Needed but missing from survival and emergency kits on the market today. Survival line is made for the survivalist and the outdoor enthusiasts; no matter if it's at work or play. It's for many emergencies you might encounter in any daily routine. Let your survival line lend you a hand when your best friend can't. Quality hand wrapped and special inter-woven lock. Will not unravel in your pocket, but with one pull your line is ready for action. • Over 13' long/160 lb. test • Light weight — pocket size • High quality green braided nylon

Offered and sold exclusively by D & G ENTERPRISES
Your survival line will be there when you need it the most. Just send \$2.00 + 50¢ for postage/handling for two (2) pocket size to:

D & G Enterprises, RD. #2, Canastota, NY 13032

NY residents please add 7% sales tax.

*Also available in pouchback size (over 26') send \$1.50 + 50¢ postage/handling for one.

AD INDEX

Australian Survivor	77
BMF Activator, Inc.	55
Backpackers & Survivors Supplies	77
Blackjack Knives	49
Blowgun World, Inc.	77
Butokukai	33
China Diesel Imports	C14
Corbin	77
Cutlery Shoppe	C12
D & G Enterprises	68
Delta Press	27
Desert Publications	37
Diversified Manufacturing	53
Dutchman, The	7
FIE	45
Feather Enterprises	71, 77
Frank's Survival Center	27
GO Software	10
Great Lakes Distributing	67
HKS Products	59
INCO	55
Intergalactic Coalition	77
Johnny Mac's Factory Outlet	69
LRRP Security Services, Inc.	69
Midwest Sport Distributors	15
Mitchell Arms, Inc.	31
Mountain Chef Stove Company	55
New & Unique Videos	53
Nuclear & Personal Defense	77
Nuclear Research	77
Nuclear Video	10
Paladin Press	5
Phoenix Systems, Inc.	71
Provisions Unlimited	4, 39-42
Pursuit Marketing	17
Quartermaster Uniform Company, The	20
R.E. Butler	67
R.P. Knives	67
Seattle Filmworks	61
Sierra Supply	29
Smokey Mountain Knife Works	77
Special Weapon Products	45
Steve Arnold's Gun Room	16
Survival, Inc.	21
Survival Books	9
Survival Center, The	69
Technical Products, Inc.	11
The American Journal of Civil Defense	49
US Cavalry	77
Valley Surplus	9
Yellowstone Media Productions	77

MAIL CALL

Mini Thirty Rifle

I have been a loyal reader of your fine publication for many years. I found your March issue very informative. I am writing this letter in regard to one of your articles. The Ruger 7.62 x 39mm. In the article you give praise to this firearm. With the exception of some bad sight screws you give it high marks. You blame the feeding problems on the ammo. In your January 1985 issue you tested the Chinese AK and gave it high marks. The ammo and action worked in perfect harmony. This is the same ammo you used in the Ruger, and which is currently being made by the billions of rounds for the 30 million-plus AKs out there. Perhaps the problem is with the Ruger and not the ammo. I have used the AK (which I purchased on your article's results) and have never had a problem.

Matthew T. Newman
Augusta, New Jersey

Combat Survivalists, Mini Thirty Rifle

I wish to comment on two items featured in your magazine recently. First, regarding the combat survivalists, no one should look down their nose at the folks who choose weaponry and combat skills as their first priority when it comes to the kind of survival. If, or when, the balloon goes up, it may be necessary to reach your already provisioned retreat, or to transport yourself and your provisions to a chosen site. Whatever your situation, the idea is to arrive safely and covertly. Both could be impossible without adequate means of armed protection, and without appropriate and thorough prior training. Both mean the difference between keeping what you have, including your life, and being able to fend for yourself past the duration of your provisions. Regarding your article on Ruger's new Mini Thirty rifle which fires the Soviet AK-47 and AKM round, the 7.62 x 39mm cartridge, while I hail Ruger's daring in coming out with this Mini-14 in caliber 7.62 x 39 Russian Short, I also fail to see how this feature's writer can heap tons of praise on the weapon, while faulting 95 percent of today's available ammunition. The Chinese or most Eastern Bloc cartridges may become the only ammunition source in a *Red Dawn* situation, unless the new AK-74 will have been universally adopted by all communist countries. In any case, a weapon which chokes on all but high grade ammo becomes useless to a survivalist who has any common sense at all. I will allow Ruger some praise in taking a step in the right

direction, but unless they build their Mini Thirty to shoot anything, please don't recommend it, especially in a survival context. I'll just stick to my AK-56S—It's not a picky eater and will pig out on anything!

Name Withheld

Master Sergeant, U.S. Army

Ruger recommends against using low grade, corrosive ammo in its newest version of the Mini-14 and, while we agree with you that this makes its use with much of the available ammunition today limited, we don't see this as making the rifle useless for survival purposes (of course many people who buy the rifle will not be particularly interested in the Mini Thirty's role as a combat survival or military weapon). AK-47 and AKM rifles are being replaced by the newer AK-74 rifle which fires a round similar to the M16 round. However, obviously there are many millions of the AK-47s and AKMs around in the world today and these will continue to be used, along with the still powerful 7.62 x 39mm cartridge, for many years to come. There are a number of U.S. ammunition makers that make high quality 7.62 x 39mm ammunition and more may do so in the future. And we suspect there is also good high quality communist-made ammo of this type which will be more available as time goes on. Also, people can hand load this ammo. We understand your concerns about having a weapon that will not "eat anything," but we don't see this as rendering the Mini Thirty useless for a combat survival role. We think having a rifle which will fire only better quality ammunition is better than having no weapon at all.

Need For Survival Information

I have recently purchased your March issue and have thoroughly enjoyed the reading it had to offer. I am a police officer and have been for approximately two years. After completing the reading in your magazine I have come to the conclusion that a magazine of this nature is a necessity to our society of today. Unless things change for the better in our judicial system, I can only say to you, keep up the good work. The March issue had an article on the training of women bodyguards which was of interest to me. Could you please tell me the names and addresses of any such schools in my area and if not, any in other parts of the U.S.?

Ralph F. Correia
Orlando, Florida

Thanks for the compliments. The names and addresses of all such training facilities we know of are in the mail to you. ●

Heat Disorders

(Continued from page 20)

affected or cramped after physical activity are those of the extremities. Occasionally, abdominal cramps are also experienced.

The body temperature is usually within normal limits. It is also important to realize that direct exposure to the sun is not a prerequisite to being affected. Skiers who overdress against the cold have also been known to experience these cramps.

The symptoms are due to the body's depletion of salt by profuse sweating. If we work in hot environments or do a lot of exercise that causes us to perspire a lot, we must be careful.

Drinking plenty of fluids and taking salt tablets with each two glasses of water will prevent this problem.

Moving the patient to a cool, well-ventilated area and giving him salted water constitutes a good basic treatment. By gently massaging the sore muscles, some of the cramping pain can be relieved. Once recovered, the patient must determine the reason for his predicament. A few days of rest are highly recommended.

HEAT EXHAUSTION: This is probably the most common heat disorder and is the body's reaction to prolonged exposure to high temperatures. It is caused by excessive fluid loss. Its onset is sudden and is due to dehydration (from inadequate water intake), a depletion of sodium (adequate intake of water but insufficient salt), or a combination of both.

Because of the fluid loss, the victim will become weak, fatigued anxious and will perspire profusely. All of this can lead to circulatory collapse, major seizures and eventual heat stroke. Those commonly affected work in hot environments, the elderly, or are taking prescribed diuretics.

Treatment consists of moving the patient to a cool and adequately ventilated area. Wet him and/or fan him to remove body heat by convection. Again be careful since you want the victim cooled but not chilled. If possible, give by mouth, cool water with salt. Send for medical help, if possible, since I.V. fluids and monitoring may be needed. Therefore, hospitalization is recommended.

HEAT STROKE (Sun Stroke): The key to this life-threatening medical emergency is an absence in most victims of sweating along with hot and dry skin. This is due to a failure of the body's heat-regulating mechanisms to self-regulate and lower the temperature.

If the victim is conscious, he will tell you that he feels as if he is burning up. Don't ignore the symptoms and signs and fail to recognize this deadly syndrome. If you do a rectal temperature and find it over 104 degrees F. then immediately proceed to lower it. Remember, the victim does not have to be out in the sun for this to occur.

(Continued on page 71)

THE SURVIVAL Center

SURVIVAL & RECREATIONAL SHELTER

Sleeps 5-7 Adults

Kits, Assembled & Custom Shelters
Radiation Detection & Protection Equip.

For Complete Information

Pictures & Layout Send \$2.00

5555 Newton Falls Rd., Dept. 129

Ravenna, Ohio 44266

Toll Free 800-321-2900 Ohio 216-678-4000

FREE Food Storage & Supplies Information



**SURVIVAL
SHELTER™**

Qualified Dealer Inquiries Invited

MEGA DART MX-7

POWER DART GUN

40 CAL. STEEL DARTS

Shipped with 20 steel darts.

Complete with shoulder
stock accessory.

Not a toy, must
be 18 yrs. old.

1 year factory
warranty.



MADE IN
THE USA

**30 DAY
MONEY-BACK
GUARANTEE!**

NOW! \$79.95
Plus \$4.50
P & H

Texas residents add \$5.00 sales tax.

MX-5 \$59.95
Plus \$3.50 P & H
Texas residents add \$3.75 sales tax.

FEATURES:

- HARD HITTING
- ACCURATE
- SILENT
- MATTE BLACK BODY
- FUN TO USE
- IDEAL FOR SMALL GAME
- TARGET SHOOTING
- SURVIVAL WEAPON
- WITH SHOULDER STOCK
- 20 DARTS
- 1 YR. FACTORY WARRANTY

MC/VISA Orders:

1-800-351-2274

JOHNNY MAC'S FACTORY OUTLET

P.O. BOX 370808-SG EL PASO, TEXAS 79935

TIMBERSHEPHERD™

TIMBERWOLF/GERMAN SHEPHERD HYBRID

As seen in S.W.A.T. Magazine November 1983 and Survival Guide Magazine August 1984

SECURITY AND PROTECTION FOR YOUR FAMILY WHILE YOU ARE AWAY.

EVEN TEMPERAMENT ideal for the family with small children. The TIMBERSHEPHERD™ is bred exclusively as a natural protector and a trustworthy working companion for the entire family.

The TIMBERSHEPHERD™ is 37.5% TIMBERWOLF/62.5% GERMAN IMPORT SHEPHERD, 4th generation hybrid, taking 7 years to produce from North American Gray Timberwolves and the FINEST Import Shepherds from West Germany.

DO NOT CONFUSE the TIMBERSHEPHERD™ with the 1/2 wolf 1/2 shepherd mix, poorly bred, unpredictable and unsuitable as a stable home companion or reliable working dog.

LONGER LIFE SPAN/KEENER SENSES over the German Shepherd, Rottweiler, or Doberman Pinscher.

OUR TRAINING RESOURCES are extensive, employing the latest techniques and standards in use by the U.S. Dept. of Defense Military Working Dog Program. Personal/Executive Protection - Scouting - Tracking - Police Patrol - Narcotics & Bomb Detection - Pups & Professional Training Available.

SHIPPING AVAILABLE WORLD WIDE VIA AIR FREIGHT.
FULL HEALTH, TEMPERAMENT, AND HIP GUARANTEES.

LRRP SECURITY SERVICES, INC.

BOX 1620 SG7, AIKEN, SC 29801, (803) 649-5934 (24-hour)

Info. includes S.W.A.T. and Survival Guide magazine articles

— SEND \$3.00 FOR BROCHURE —



PLANNING TO MOVE?

If you are changing your address let us know
6 weeks in advance indicating your NEW
location below. Be sure to include your old
address.

ATTACH
MAILING
LABEL
HERE

NAME _____

ADDRESS _____

CITY _____

STATE _____

ZIP _____

Mail To: **American
Survival Guide**
P.O. Box 15690
Santa Ana, CA
92705-0690

CLASSIFIED ADVERTISING

BOOKS/PUBLICATIONS

NEW CATALOG EVERY TWO MONTHS—50-page catalog describes over 300 titles. Get the best new books on survival, weaponry, revenge and dozens of other subjects! Send \$1.00 to: Paladin Press, P.O. Box 1307-MCF, Boulder, CO 80306. (303) 443-7250.

SURVIVAL BOOK: HOW & WHY—are 28% of the World's population protected from Nuclear accidents such as Chernobyl and Three-mile Island, and even holocaust? Read the 300-page book that may become the POLITICAL ISSUE of 1988. Order now—Send: \$4.95 to FIGHTING CHANCE, Dept. ASG, P.O. Box 114, Freedom, ME 04941.

IMPROVED MUNITIONS HANDBOOK, TM31-210—Most informative, hard to find original military manual of its kind! 251 pages of precise, hands-on info. \$9.95 ppd, catalog free with order, or \$2.00. No minors. WWII, Dept. ASG, 101 Doolittle Ave., Waterville, NY 13480.

SURVIVAL BEGINS WITH KNOWLEDGE—Original military manuals! FM21-76 Survival, \$8.95; FM21-10 Field Hygiene and Sanitation, \$8.95; FM5-15 Field Fortifications, \$11.95. All three \$27.95 ppd. Free catalog with order, or \$2.00. WWII, Dept. ASG, 101 Doolittle Ave., Waterville, NY 13480.

THE SURVIVAL CHECKLIST!—Finally, everything you need to survive natural or manmade disasters. Cost \$5.00, value priceless. Ground Zero Survival Supply, Dept. ASG, P.O. Box 335B, Croton, OH 43013.

MARRIAGE AND DIVORCE—THE MALE RIP-OFF—This report could save you \$\$\$\$ Send \$8.50 to: Report, Box 150, Dept. ASG, Chesterhill, OH 43728.

WEAPONS

HUNTING AND SURVIVAL KNIVES—Come with full life time warranty, \$2. brings brochure. Thunderbolt Knife Sales, Box 1222, Dept. ASG, Andrews, TX 79714-1222.

TRY SOMETHING OLD—Ultimate Survival Weapon. Learn about ATLATL spear throwers. Killing power can stop elephants. Quiet, effective, simply, deadly. "Survival With The Atlatl" book, \$5.95 plus \$1.25 postage. Ask about our kits, plans, and readymade. Write Survival, Tate Enterprises, Dept. ASG, Box 110755, Aurora, CO 80011.

DEADLY BREW: ADVANCED IMPROVED EXPLOSIVES—Learn how to construct explosive devices which provide detonation through an immediate mixture of two separate ingredients. Get the latest in advanced improved explosives—for information only. 5 1/2 x 8 1/2, softcover, illus., 64 pp. Send \$11 ppd to: Paladin Press, Dept. ASG, P.O. Box 1307-MBX, Boulder, CO 80306. (303) 443-7250.

FOOD/WATER

FREE CATALOG!—MRE's, Gourmet Freeze Dried Foods. SURVIVAL/CAMPING Supplies. DISCOUNT PRICES! Survival Supply, DAS, 15010 Keswick, Van Nuys, CA 91405.

NATURAL PRESERVATIVE FREE—Food storage plans. Car, school, office kits. Since 1980 free catalog. Simpler Life Emergency Provisions, Box 5214, Dept. ASG, Hacienda Heights, CA 91745.

DRIED MEATS—With direct from the factory prices. Write SASE to K-10 Info., 391 Leavenworth #25, Dept. ASG, San Francisco, CA 94102.

MISCELLANEOUS

RUVEL & CO., INC.—U.S. GOVERNMENT SURPLUS. USN Leather Flyers Jacket Type G-1 or Type A-2 USAAF

Leather Pilot's Jacket Brand New Sizes 36 to 46 \$182.50 Sizes 48 & 50 \$192.50 BDU Camouflage Military Fatigues S, M, L Jackets \$26.00 Pants \$26.00 XL Sizes \$29.00. New M65 Army Field Jackets S, M, L, XL OD, Leaf Camouflage, Tiger Striped, Desert Tan or Black \$47.50. New M65 Liner \$18.95. GI N3B Type Snorkel Parka Extreme Cold Weather S, M, L, XL \$105.00. Army Fatigue Caps with Earflaps OD or Woodland Camouflage Size 7 to 7 1/4 \$8.50. U.S. Army M9-A1 Gas Masks w/Carrying Bag \$37.50. New Extra Gas Mask Filters \$8.00. U.S. Army Current Issue Intermediate Cold Weather Sleeping Bags \$95.00. Extreme Cold Weather Sleeping Bags \$145.00. New GI .45 Auto Hip Holsters Black \$17.75, tan \$19.75. Government type .45 Shoulder Holsters \$11.75. Current Issue GI Pistol Belts w/Plastic Buckle \$12.00. Carbine 30 rd. Mags \$6.50. Two 15 rd. Mags & Stock Pouch \$5.25. M1 or M2 Carbine Stocks \$15.00. M1 or M2 Handguards \$5.00. GI Sling & Oiler \$5.00. M5 Garand Bayonet w/sheath \$25.00. Grease Gun Mags \$12.50. M14 20 rd. Mags \$11.50. M14 Cleaning Tool Set \$8.50. Carbine Cleaning Set w/case \$7.50 AR15 Cleaning Kit w/case \$10.74. New GI OD 10 Pocket Cartridge Belt \$17.50. Khaki \$22.50. GI M1911 .45 Auto Mags \$7.00. AR15 30 rd. Mags \$8.95. Springfield Bolt Complete \$16.50. GI AR15 M7 Bayonet w/sheath \$24.50. AR15 Nylon 30 rd. Ammo Pouch \$8.95. New 100% Wool Army GI Blankets \$24.75. GI Angle Head Flashlights \$6.35. Army-Marine GI Compass w/case, non-radioactive \$33.95. Campaign Hats 6-5/8 to 7-3/4 \$19.50. Hat cords red, blue, yellow, officers gold & black \$5.75. Complete listings found in 1987 Army-Navy Store 64 page catalog. Send \$2. (free with \$10.00 order). All items very good unless otherwise stated. Price plus delivery charge. Check, MasterCard or VISA accepted. Illinois residents add 7% sales tax. RUVEL & CO., INC. 3037 N. Clark St., Dept. ASG, Chicago, IL 60657. (312) 248-1922.

CONCRETE BLAST OR FALLOUT SHELTERS—For 10 or larger, plans, doors, vents, blast valves, instructions for building. Explanatory brochure \$5. Marcel M. Barbier, Inc., Dept. ASG, P.O. Box 2905, Reston, VA 22090. (703) 860-1275.

BLACK BELT RANK—Prestigious honor granted by Sensei based upon Life Experience, Personalized parchment Certificate \$20., Standard \$15. Wallet ID Card add \$5. Life Experience Systems, P.O. Box 105, Dept. ASG, Latham, NY 12110.

BE PREPARED—For hurricane season or any emergency with the "Dynamo" portable AM/FM radio with built-in flashlight. Needs no batteries. Operates on special nickel-cadmium battery pack, which can be rapidly charged by turning its own built-in hand crank generator. Send \$49.95 to MRC Enterprises, Dept. ASG, P.O. Box 890331, Houston, TX 77289-0331.

PLAYBOYS 1954 THRU PRESENT—Catalog 39¢ SASE. Lantern Comics, 520 Broadway, Dept. ASG, Fargo, ND 58102.

MILITARY SURPLUS CATALOG—Reissue & New. Tent poncho, survival sleeping bag, equipment, clothing. Send SASE & \$1. (refundable). Checkpoint Charlie Sur-

plus, P.O. Box 323, Dept. ASG, Streamwood, IL 60107.

NEW I.D. IN AMERICA—Create a new identity and get lost! This book shows you how to break with your past and be someone else—complete with bona fide birth certificate, passport, driver's license, credit cards, Social Security number etc. 5 1/2 x 8 1/2, softcover, illus., 120 pp. Send \$18. ppd to Paladin Press, P.O. Box 1307-MPY, Boulder, CO 80306. (303) 443-7260.

STORING AND HIDING YOUR GUNS—Fight back against gun control. \$7.50. Teague Electronics, Dept. ASG, Route 5, Box 83, Odessa, TX 79766.

CUSTOM MADE GEAR—Tents to knife sheaths. Your design. Modified military gear. Children's equipment. Outback America, Dept. ASG, Box 272, Derry, NH 03038.

ORIGINAL CIA BLACK BOOK OF IMPROVED WEAPONS—2 giant volumes reduced to pocket size. \$11.95 ppd. Ground Zero, Dept. ASG, P.O. Box 335B, Croton, OH 43013.

American Survival Guide's Classified Advertising rate is 75 cents per word, per single insertion, including the advertiser's name, address and zip code. There is no charge for the words "Dept. ASG." Minimum charge is \$11.25 for three lines. No cash-with-order or frequency discounts are allowed. All advertisers must include name, street address or post office box number, city, state and zip code number. Type or print your advertisement, word for word, on the order form below or on a facsimile of the form. Mail your advertising copy with check or money order to American Survival Guide, Classified Advertising, 2145 W. La Palma Ave., Anaheim, CA 92801. ASG classified advertising readers are advised that ASG does not verify the validity of every classified advertisement published. ASG reserves the right to reject any and all advertising deemed inappropriate for the magazine.

CLASSIFIED AD ORDER FORM

CLASSIFICATION _____

Name _____

Street Address or P.O. Box _____

City _____

State _____

Zip _____

MAIL TO: American Survival Guide, Classified Advertising Department, McMullen Publishing, Inc., 2145 West La Palma Ave., Anaheim, CA 92801.

Heat Disorders

(Continued from page 69)

The danger with heat stroke is that it can progress rapidly to shock and eventual death from cerebral, cardiovascular, renal and hepatic destruction. The body tissue damage is caused by the extremely high body temperature. Therefore, the temperature must be lowered to 102 degrees F. as rapidly as possible. Once 102 degrees F. has been reached, discontinue the drastic measures but continue to monitor the rectal temperature every 10 minutes for possible febrile rebound. It is now important that you do not allow the temperature to fall so fast and low that the patient converts from a state of hyperpyrexia to hypothermia, which in itself is a medical emergency.

This disorder is common seen in the elderly with chronic diseases as congestive heart failure, in long distance runners, and military recruits. Standard first aid treatment is putting the patient in a cool well-ventilated area. Since external means of heat dissipation must be done at once to lower the temperature, remove the clothing. Now, if available, begin a cold water bath, but be careful. You must not put an unconscious person in a body of water that you can't control him in. **DON'T DROWN ANYONE!** You can also wet the body and rapidly fan it to cool it down quicker.

Next massage the extremities to promote the circulation of cooled blood to all body parts.

When the opportunity arises, call for help since this patient will need to be hospitalized where drugs, oxygen (if cyanosis is present), further cooling and monitoring can be continued if necessary.

This is serious and the mortality or death rate is close to 100 percent in untreated patients. The victim's survival depends on your ability to aggressively bring about rapid cooling.

CONCLUSION: These disorders can be minor or deadly. Much depends on how you handle them or if pertaining to yourself, how to avoid the pitfalls.

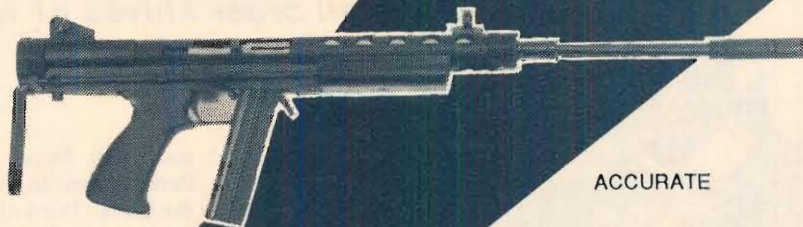
Generally speaking, match your clothing selection for outdoor activities or work to the weather. Remain in a cool, shaded environment when it is hottest out and avoid strenuous activities during those periods of heat and high humidity. If you have any of the risk factors mentioned, be aware of them and take appropriate action.

Before doing strenuous activities or going into the wilderness where medical care is not readily available, get a good physical from your doctor (M.D. or D.O.) and have he or she explain any side effects **you should be aware of from medicines** you may be taking. Remember, the best treatment is, if at all possible, prevention. A good first aid course is also highly recommended. ●

THE ULTIMATE .22 L.R.!



.22 L.R. Semi-auto Carbine



ACCURATE

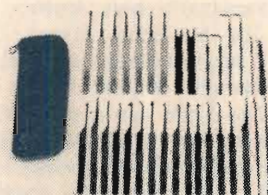
100% MADE IN U.S.A.

RELIABLE

Call or write for free brochure.

Feather Industries, Inc.
2300 Central Ave. #K
Boulder, CO 80301
(303) 442-7021

PROFESSIONAL LOCKPICKS



SUPERIOR PICK SET

For the serious student of lockpicking: our most complete lockpick set. Contains 32 high quality spring steel, professional lockpicks, tension tools and extractors. Hip pocket size in a top grain leather case.

#604 Price: \$75.00



TYRO PICK SET

An excellent and economical choice for the beginner. Contains 9 of the most commonly used tools: picks, tension wrenches and key extractor. Comes in a cowhide leather case.

#606 Price: \$34.95



TUBULAR LOCK PICK

This tool is an easy and reliable method for picking tubular locks as found on vending machines, washers, dryers, etc. The newest high-tech design is much faster and easier to use than the old style. Internal neoprene "O" rings together with knurled collar provide simple and easy tension adjustment. This tool will, with a little practice, easily and quickly open any center-spaced tubular lock — the most popular and widespread type on the market. Comes with complete instructions, tubular key and pick decoder and leather carrying case.

#600 Price: \$129.95

BOOKS

#781 Lock Picking Simplified	\$ 6.00
#782 Tubular Locks	\$ 8.00
#783 Locks and Alarms	\$15.95
#784 Complete Guide to Lockpicking	\$ 9.95
#785 Combination Locks	\$ 6.00
#787 Safe and Vault Manipulation ..	\$ 9.95
#789 Lockout and Forced Entry ...	\$ 7.95
#790 Complete Book of Locks and Locksmithing	\$15.95

NOTE: BE SURE TO CHECK YOUR LOCAL AND STATE ORDINANCES GOVERNING POSSESSION OF THESE TOOLS.

Please add \$3.00 Shipping and handling with each order.

Catalog \$2.00 FREE with order

Phoenix Systems, Inc.

P.O. Box 3339A

Evergreen, CO 80439

Phone: (303) 674-2653

Affordable:

Parker Cutlery



Smoky Mountain Survival knife with heavy 4 1/4-inch blade tucks nicely into its boot or belt sheath.

THERE'S a knife for everyone's taste in the Parker Cutlery catalog. From hefty Bowie blades and deluxe folding lockbacks, to kitchen cutlery and throwing stars, this Tennessee company offers a little bit of everything—to the tune of nearly 1,000 models, sizes and styles.

Parker Cutlery is a knife *wholesaler*, which means their products cost less than if you bought 'em in a sporting goods store. They sell to independent dealers, most of whom earn side income peddling blades to friends and co-workers. However, Parker will sell at wholesale to anyone with a catalog, as long as they order at least \$25 worth of cutlery at one time.

Parker knives are made in their own factory in Japan (Seki City, Gifu Prefecture), under the tradenames of "Eagle Brand" (the parent name), "American Brand" or "Parker-Imai." This area of Japan has long been famous for its quality swordmakers, a revered trade in that country.

Many Parker knives have "second-cut stag" handles; this is genuine stag bone material, but the decorative grooves are machined into the surface and the color is dyed in. This material offers very pleasing looks, and my tests show it's as sturdy as any "first-cut" stag antler handle. Only discarded antlers are used, since company owners don't believe in killing animals for material gain.

Blade material on Parker Eagle Brand knives is "surgical steel." Factory spokesman say this is a higher grade of corrosion-resistant steel than stainless, and it holds a better edge.

My favorite pocket knife is Model #115-51, a 3-1/2-inch blade drop-point hunter with second-cut stag handles. The

Mail order knives at wholesale prices . . .

By Joe Zambone

blade is surgical steel with lining and bolsters of brass; Parker's famous eagle logo is engraved on the blade. This knife is 4-5/8 inches long closed, and fits hand and pocket like the proverbial glove.

I tested the "Big Lou," #K-139, a massive lockback 5 inches long closed, with a 3-3/4-inch surgical steel blade and second-cut stag handles. It's supplied with a nicely-made leather basketweave belt sheath, with snap closure.

Parker's #J69L "Big Smoky" is a boot or belt dagger with a 6-7/8-inch double-edged blade. The surgical blade is nearly a quarter-inch thick at the center spine, and has 2 inches of serrations on each edge about 3-1/2 inches back from the dagger tip. The handle is olive drab aluminum, and the knife comes with a sheath with belt loop and GI ammo belt clip.

For survivalists there's Parker's "Special Forces Survival" belt knife, Model #K-672. It's 11 inches overall, with a 6-1/4-inch surgical blade (.140-inch thick) and lightweight hollow Valox plastic handle. The knife has a sawtooth back edge 3 inches long, a compass in the end cap, a complete survival kit which stores in the handle, and hard Valox sheath with sharpening stone, plus Morse Code and International ground-to-air distress signal molded into the surface. The sheath has nylon cord leg ties, and Velcro fastening to hold the knife in place and cover the stone.

The Valox plastic used on this and some other Parker knives is virtually indestructible. It saves weight and is much nicer to use in cold weather than the typical metal-handle knife. Finger grooves ensure a good handhold.

Model K-633 is a lunker-sized survival knife, 15 inches long overall, sporting a single-edge 9-1/2-inch blade with sawtooth back. It has a hollow cast aluminum handle and comes with sheath and sharpening stone. Ours had a black Teflon finish, but plain steel finish is also available.

The 633's blade is .165-inch thick for half the length nearest the handle, and about .100-inch thick towards the point. The handle's weight makes the knife blade-light, and it feels strange to hold. I felt the blade might have insufficient thickness for long-term survival work, but I

chopped enough wood to determine that it'd take very rough usage to break this knife.

The "Silver Sentry," #J-1069, is an all-steel dagger 8-1/2 inches long overall, with double-edged 3-3/4-inch blade of 3/16-inch thickness. The handle and blade are machined from a single piece of surgical steel; five circular holes in the handle keep weight down. It's supplied with a boot/belt sheath in basketweave design.

Parker's Model #K-363 "Smoky Mountain Survival" knife has a 4-1/4-inch blade almost 3/16-inch thick, a hollow aluminum handle with compartment for survival goodies (included in price), and a well-made boot/belt sheath. This would be a great hunting or woods knife, and adequate for short-term survival with the kit installed.

In the decorative knife department, the kind of blade carried to evoke envy among friends, there are five lovely Damascus steel knives made in Alabama for Parker by Fain Edwards. Each blade has 512 layers of steel, and after grinding and polishing the layers are magically transformed into miniature contour maps on the blade's surface. Handles are exquisite "sandbar stag," and bolsters are nickel-silver.

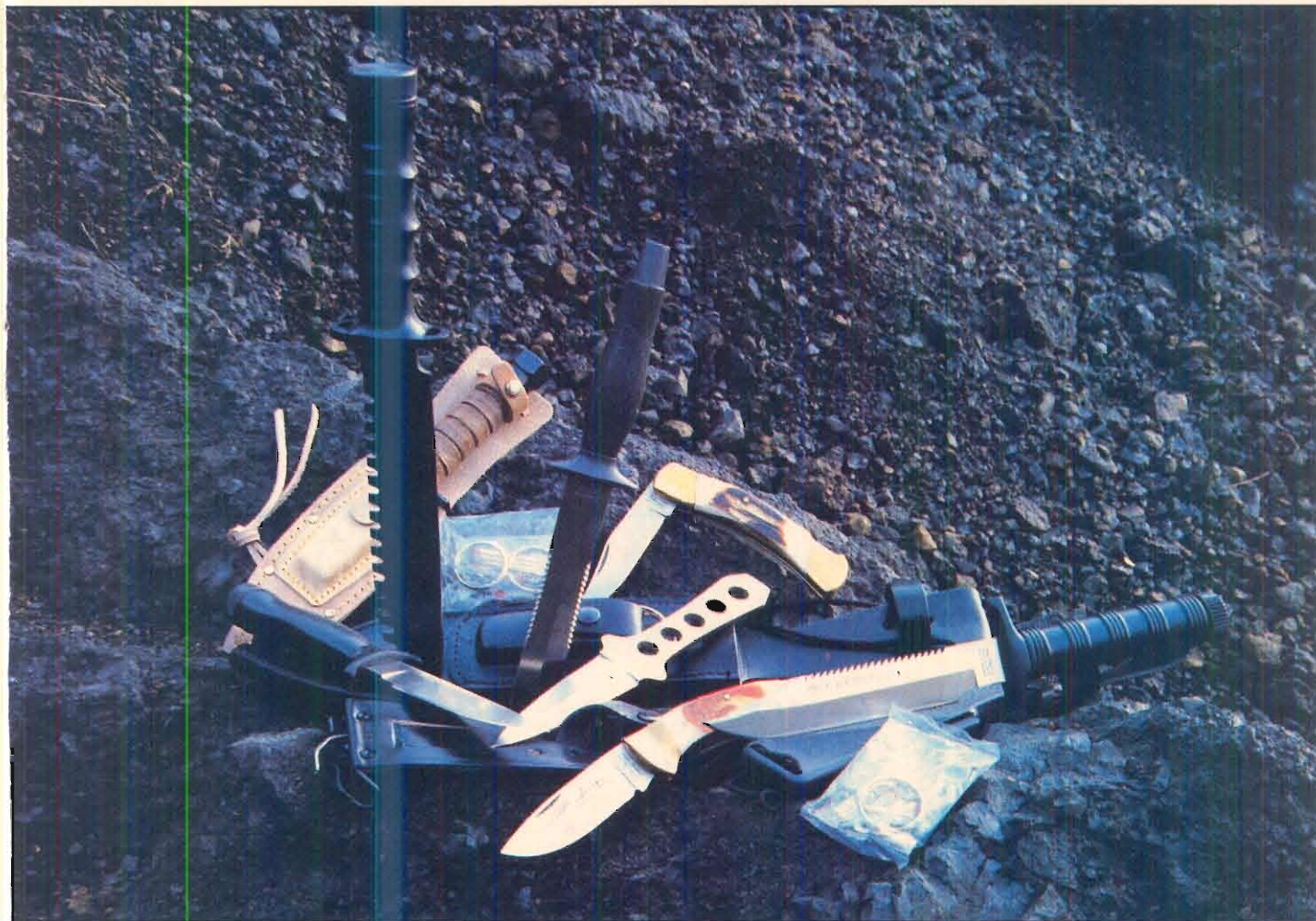
Under the American Blade logo, Parker offers hand-engraved scrimshaw knives, with genuine bone handles and stainless steel or German silver bolsters, for as little as \$10. There are also limited edition designer knives, etched blade knives and custom handmade offerings in every possible style. Others have mother of pearl, abalone, micarta or genuine stag handles.

There are straight razors in Parker's catalog, plus kitchen knives, cleavers, and cutlery sets with wooden block holders. Collector's editions and throwing stars, knife sharpening tools and Valox-handled lightweight pocket knives, butterfly sticklers and fillet blades—no matter what you like, Parker has it.

There's more, but your best bet is to write for a catalog (\$2, but worth it): Parker Cutlery, Dept. ASC, 6928 Lee Hwy., P.O. Box 22668, Chattanooga, TN 37422. Don't forget to enclose two bucks. You'll get catalogs throughout the year once on their mailing list. ●

AMERICAN SURVIVAL GUIDE

RIGHT—The Special Forces Survival knife as a 6¼-inch blade with sawback, hollow Valox handle and emergency signals stamped on the Valox sheath.



RIGHT—The Big Lou is a lockback that measures 5 inches closed. It has second-cut stag handles.

BELOW—Parker's Silver Sentry is an all-steel dagger, 8½ inches overall with 3¾-inch blade.



Luxury, Survival:



Ducks Truck



The DU Suburban comes standard with 4 WD, V-8 engine . . .

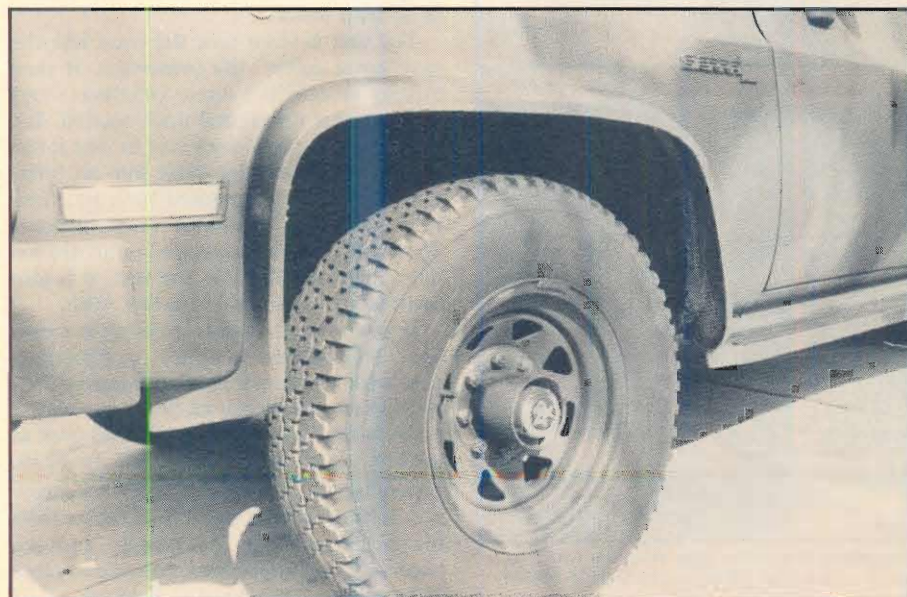
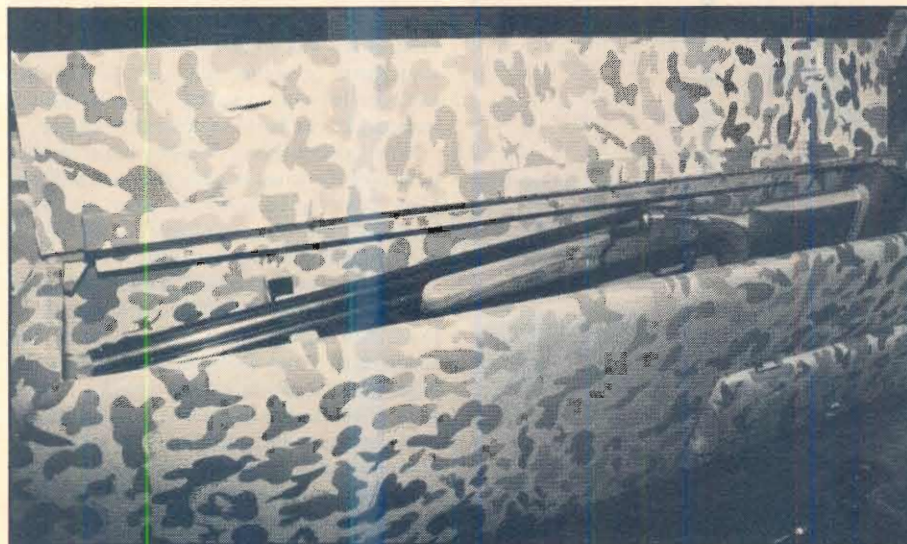
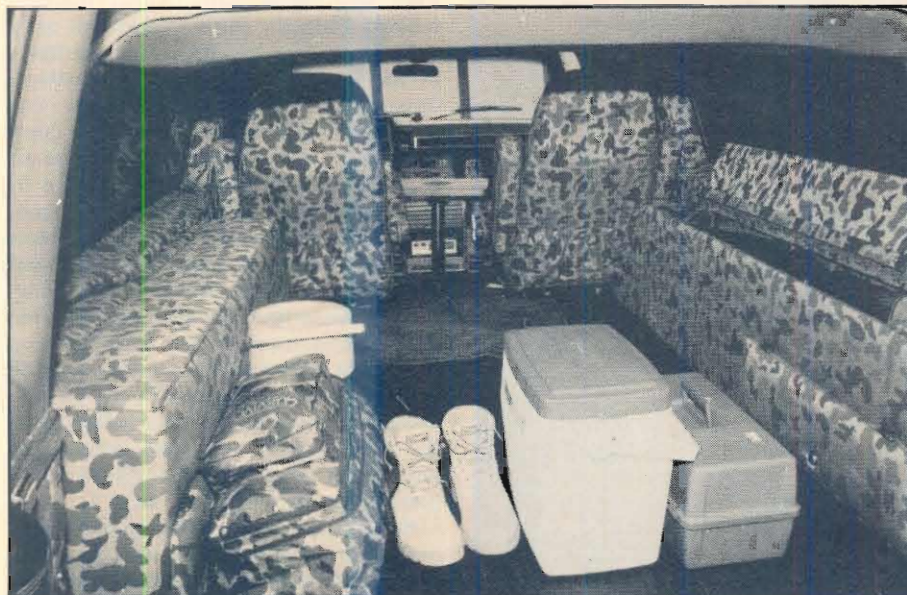
Staff Report



NO, you're not looking at a vehicle from a new Rambo movie. Nor is this truck something the military is using, though the armed forces do have some

camouflaged vehicles that look similar—on the outside at least.

This is the Ducks Unlimited "Limited Edition" Chevrolet Suburban created by



Ducks Unlimited, General Motors Corporation and Starcraft "for the hunter who has everything."

While we don't contend that this would be the ultimate survival vehicle, it does have survival-related qualities among its many luxuries and it could serve, with its 40-gallon fuel tank, as a getaway vehicle. So we thought readers might find the truck of interest, even though it's definitely not for everyone.

Powered by a V-8 engine, the DU Suburban comes standard with four-wheel drive. You can purchase it with an optional brush guard, front winch, top storage compartment and 12-foot jon boat (shown here) that's painted to match. For the more luxury minded, the truck can also be had with factory-installed television, video cassette recorder/player, remote start, citizens band radio and radar detector.

Besides 4 WD, other standard features include gun lockers with racks and many other storage compartments. Canvas duck camouflage covers the four captains chairs, bench seat, side panels and ceiling. Standard front wheel hubs lock manually but you can get optional auto-locking hubs which the truck pictured here has for shifting into 4 WD while moving.

There are many other attractive standard features such as fog lights, grab handles above doors, two 12-volt plug receptacles, all-terrain radial tires, teak overhead console with Delco ETR 2000 AM/FM Cassette and four speakers, and windshield mounted compass.

The GMC Ducks Unlimited Suburban is available by special order, starting at about \$29,000, from GMC truck dealers nationwide. ●

Water Survival Basics

(Continued from page 63)



To inflate trousers, first knot the ends of the legs, then swing them over your shoulder and into the water waist first. Once inflated, these trousers are supporting a 190-pound man in 15 feet of water.

work best. Blue jeans, khaki trousers, military fatigues, cotton slacks, all work well. The reason for this is that the fibers in the material swell when they absorb water and can be used to trap air. By tying a simple overhand knot as far down towards the cuff as possible, two large air chambers are formed. By zipping the fly and buttoning or snapping the waistband, your pants are now ready to inflate. This is accomplished by holding the waistband opening apart with both hands and swinging the pants over the shoulder and into the water in front of your waist opening first. After a few minutes practice, you will find that both legs fill up with air. To hold this flotation device, continue holding onto the waistband or tuck one inflated leg under each armpit with the crotch of the pants stretched across the chest.

Be careful not to force the inflated pants under the water any more than necessary as the material will still permit some air to escape. As that trapped air gradually escapes, the pants will need to be re-inflated as was done initially. If a pair of rain pants or nylon, bib type overalls are used in lieu of trousers, air will remain trapped in the legs considerably longer.

One caution here. A hole or threadbare patch on the knee of your trousers will not allow that leg to hold air when inflated. Insuring that your clothing is always in good repair is cheap insurance.

There is one last item I'd like to discuss. This is a device I highly recommend to fishermen who pursue their sport in the ocean surf, from rocky jetties, and in the frigid glacial rivers of the Pacific Northwest. This device is known as a Snorklers Vest and can be purchased in most any dive shop. While some manufacturers produce fishing vests with sewn-in flotation, they are marginal at best and useless if a deep hole or turned ankle results in waders filled with water.

The vest is worn over the head like the old "horse collar" life preservers. It then fastens around the torso, (methods vary) and remains uninflated until needed. It's similar to my flight deck vest in that it has a large CO2 cartridge built into an inflation valve that is operated by a pull lanyard. Inflation is almost instantaneous. Should the lanyard activated puncture pin fail or release CO2 into the vest, it is also equipped with an oral inflation tube.

When worn deflated, mobility is excellent. This is sure to appeal to fishermen who wish the freedom of movement their sport demands. Some models even feature a velcro flap pocket for additional gear as needed. Cost varies from \$60 to \$110, depending on the model. Quality construction is the rule with these vests rather than the exception. For the money, and the peace of mind it provides, this is one piece of insurance that's hard to beat. ●

WANT TO SURVIVE

Read AUSTRALIA'S only Survival magazine. Prepare for the coming hard times of economic collapse, nuclear war, ecological disaster. The "AUSTRALASIAN SURVIVOR" will show you how. Six issues per year, \$18 U.S. Funds. Fourth year in publication, all back issues in stock.

PO Box E457, Queen Victoria
Tee, ACT 2600 Australia
(20 Kingston St)

ADVENTURE!

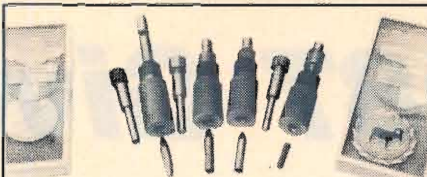


Exotic and Functional Gear, Genuine Military Clothing and Equipment for Outdoors, Survival, and the Streets. Best Quality! Best Prices!

Send \$3.00 for Your Copy of Our Current 132 Page Color Catalog.

Department ASG
1375 N. Wilson Rd.
Radcliff, Ky 40160
Ph. (502) 351-1164
Visa/MC/Am. Ex.

U.S. CAVALRY
WORLD'S FINEST MILITARY AND ADVENTURE EQUIPMENT



BEHIND THE WINNERS...
CORBIN Bullet Swage Equipment... from benchrest to big game, you can make bullets better, faster and more economically. **FIND OUT HOW...**

7-Book Library, \$47.50* Handbook, \$4.*

*PLUS SHIPPING

VISA/MC WELCOME!
503-826-5211

CORBIN

P.O. BOX 2659
WHITE CITY, OR 97503

"If We Don't Have It, We Can Get It!"

We carry backpackers' meals, just add boiling water. Just some of the items listed.

Fuel, Compressed, Trioxane Ration Heating
3 Bars \$1.25
Energy Bars, Chocolate 4 Oz. 2.00
Survival Kit \$50.00 + 500 shipping
Genesis Meals \$1300 per case + 600 shipping
MRE Meals 2.50
22" Collins Machettes
From San Salvador \$6.00 + 500 shipping
FIELD DOG FIRST AID KIT \$59.95 + 500 shipping

Foods we carry are Alpine Air, Genesis, Backpacker and Eureka.

BACKPACKERS AND SURVIVORS SUPPLIES

P.O. Box 64770-537
Los Angeles, CA 90064

Please send \$4.00 for catalogue
California Residents add 6% Sales Tax

SUPPORT American Survival Guide Advertisers



20 Acres (or more) starting at \$6950, with \$500. down, \$98.22/month. Near Beautiful Yellowstone Park and National Forests. In the heart of trophy elk, deer, moose, antelope and turkey hunting. Blue ribbon trout streams. Guaranteed Access. INSURED TITLE AND WARRANTY DEED. Your Inspection Welcomed. FREE Color Brochure.

Call Today TOLL FREE: 1-800-252-5263
Yellowstone Basin Properties

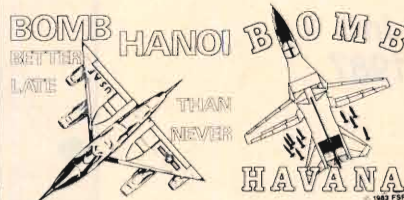
1119 N. 7th Ave., Dept. SL, P.O. Box 3027
Bozeman, MT 59772-3027 • (406) 587-5469



FREE KNIFE CATALOG

OVER 100 BIG PGS. OF EVERY CONCEIVABLE KNIFE, ALL AT WHOLESALE PRICES!!

SMOKY MOUNTAIN KNIFE WORKS
P.O. Box 714AS Sevierville, TN 37862



Hanes T-Shirts, mostly gray heather 75% cotton. Our title on rear \$14.50 with 50 #10 illustrated envelopes (any images) and 11x17 "Eat This. Morton Grove" adhesive poster. XXL \$16.50 Uncle Mike #4, 5 vert. camo holster w/shirt, \$24; any number black or camo belt holsters \$11.50. Quart glasses 25800, early american shirts for the muzzleloader. Intergalactic Coalition to Promote Handguns Throughout the Universe, 1253 N. California, Chicago, IL 60622 312-235-7555 24 hr recorder on line. Amexpress, COD welcome. Dealers inquire.

EXPLOSIVES

THE MOST POWERFUL NON NUCLEAR EXPLOSIVES EVER DEVELOPED!

MORE POWERFUL THAN TNT, C-4 PLASTIC, NITROGLYCERIN OR PBXN-1, ASTROLITE G, AND ASTROLITE A-1-S ARE THE MOST POWERFUL NON-NUCLEAR EXPLOSIVES AVAILABLE TODAY.

EASILY PRODUCED FROM TWO COMMERCIALLY AVAILABLE COMPONENTS, (3 FOR A-1-S). ASTROLITE EXPLOSIVES CAN BE MADE IN A MATTER OF MINUTES, AND WITH MORE EASE AND SIMPLICITY THAN VIRTUALLY ANY OTHER EXPLOSIVE KNOWN. GUARANTEED

ASTROLITE G
det. velocity 8,600 m.p.s.

ASTROLITE A-1-S
det. velocity 7,800 m.p.s.

For Complete Manufacturing Instructions... Send \$15.00 to:
NUCLEAR RESEARCH
BOX 10073 G. S. SPRINGFIELD, MO. 65808
©1985 NUCLEAR RESEARCH

NUCLEAR AND PERSONAL DEFENSE JOURNAL

Facts on nuclear and home defense, how to evaluate gear, much more.

240 pages per year
GUARANTEED for \$30.00
SAMPLE \$3.00

ROBERT C. SMITH
POST OFFICE BOX 1265
MERCHANTVILLE, NJ
08109-0265

AR-7 MINI-14 10/22

ACCESSORIES

Send \$1.00 for Catalog

FEATHER INDUSTRIES inc.
2300 Central Ave. #K
Boulder, CO 80301
303-442-7021

NEW 6 FT. "4 IN 1" TAKE-DOWN BLOWGUN

New 1988 Survival Hunting "Commando" Models
Camouflaged or Black wood
Models add \$3.00 each gun
Regular Range 1- or 2-pc
Models In Feet take-downs
2 ft. 27 \$3.95
3 1/2 ft. 110 9.95
4 1/2 ft. 220 10.95
5 1/2 ft. 300 11.95
6 ft. 350 12.95

3-piece "4-in-1" Guns
8 ft. 350 17.95
8 ft. 450 22.95
9 ft. 550 24.95

Add \$1.95 postage EACH paid gun.
Combined get 2 ft. gun + 3 1/2 ft. gun + 4 1/2 ft. gun FROM \$8.95

135 FREE DARTS Camouflaged. Free quiver holds 12 darts. Adrax Photo
DEALERS 1 OR 2 PC. GUNS
12-2 ft. 97.00 12-3 1/2 ft. 106.00
12-3 1/2 ft. 79.00 12-4 ft. 102.00
12-4 1/2 ft. 89.00 12-5 ft. 3-pc. 120.00

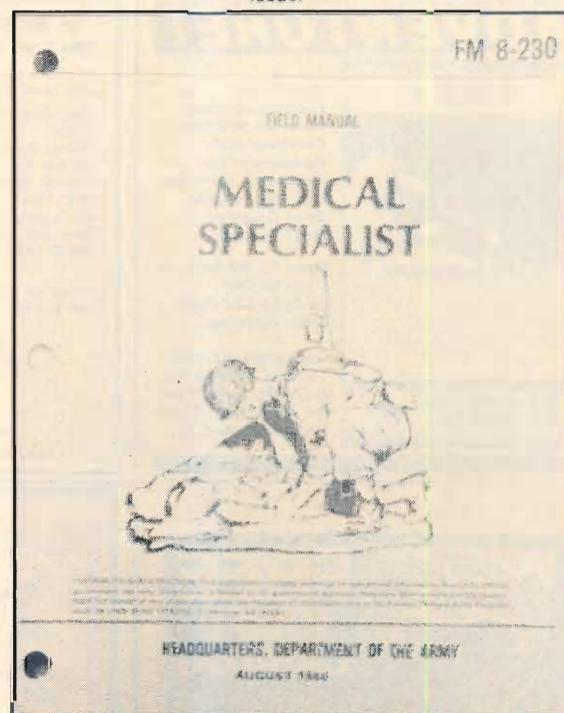
SILENT, POWERFUL, ACCURATE, bullet impact! Kills game. No noise. No smoke. No fumes! Target, plinking, thrilling sport! Astorid friends! Compressed breathy gloves. Rifle power! Pieces to wood! NO TOY! Rugged aluminum. Ideal gift! 135 steel darts, instruc. Extra darts 100 \$3.50, 200 \$5.95, 500 \$14.00, K \$25.00, Cone darts 100 \$8.88, 200 \$16.88, 500 \$39.95, Broadhead tips 12 \$5.90, 224 \$10.95, 500 \$24.90.

Bonus: Buy 2 guns get 400 darts! Buy 3 guns get 600 darts! Buy 4 guns get 800 darts! Buy 5 guns get 1000 darts! Buy 6 guns get 1200 darts! Buy 7 guns get 1400 darts! Buy 8 guns get 1600 darts! Buy 9 guns get 1800 darts! Buy 10 guns get 2000 darts! Buy 11 guns get 2200 darts! Buy 12 guns get 2400 darts! Buy 13 guns get 2600 darts! Buy 14 guns get 2800 darts! Buy 15 guns get 3000 darts! Buy 16 guns get 3200 darts! Buy 17 guns get 3400 darts! Buy 18 guns get 3600 darts! Buy 19 guns get 3800 darts! Buy 20 guns get 4000 darts! Buy 21 guns get 4200 darts! Buy 22 guns get 4400 darts! Buy 23 guns get 4600 darts! Buy 24 guns get 4800 darts! Buy 25 guns get 5000 darts! Buy 26 guns get 5200 darts! Buy 27 guns get 5400 darts! Buy 28 guns get 5600 darts! Buy 29 guns get 5800 darts! Buy 30 guns get 6000 darts! Buy 31 guns get 6200 darts! Buy 32 guns get 6400 darts! Buy 33 guns get 6600 darts! Buy 34 guns get 6800 darts! Buy 35 guns get 7000 darts! Buy 36 guns get 7200 darts! Buy 37 guns get 7400 darts! Buy 38 guns get 7600 darts! Buy 39 guns get 7800 darts! Buy 40 guns get 8000 darts! Buy 41 guns get 8200 darts! Buy 42 guns get 8400 darts! Buy 43 guns get 8600 darts! Buy 44 guns get 8800 darts! Buy 45 guns get 9000 darts! Buy 46 guns get 9200 darts! Buy 47 guns get 9400 darts! Buy 48 guns get 9600 darts! Buy 49 guns get 9800 darts! Buy 50 guns get 10000 darts! Buy 51 guns get 10200 darts! Buy 52 guns get 10400 darts! Buy 53 guns get 10600 darts! Buy 54 guns get 10800 darts! Buy 55 guns get 11000 darts! Buy 56 guns get 11200 darts! Buy 57 guns get 11400 darts! Buy 58 guns get 11600 darts! Buy 59 guns get 11800 darts! Buy 60 guns get 12000 darts! Buy 61 guns get 12200 darts! Buy 62 guns get 12400 darts! Buy 63 guns get 12600 darts! Buy 64 guns get 12800 darts! Buy 65 guns get 13000 darts! Buy 66 guns get 13200 darts! Buy 67 guns get 13400 darts! Buy 68 guns get 13600 darts! Buy 69 guns get 13800 darts! Buy 70 guns get 14000 darts! Buy 71 guns get 14200 darts! Buy 72 guns get 14400 darts! Buy 73 guns get 14600 darts! Buy 74 guns get 14800 darts! Buy 75 guns get 15000 darts! Buy 76 guns get 15200 darts! Buy 77 guns get 15400 darts! Buy 78 guns get 15600 darts! Buy 79 guns get 15800 darts! Buy 80 guns get 16000 darts! Buy 81 guns get 16200 darts! Buy 82 guns get 16400 darts! Buy 83 guns get 16600 darts! Buy 84 guns get 16800 darts! Buy 85 guns get 17000 darts! Buy 86 guns get 17200 darts! Buy 87 guns get 17400 darts! Buy 88 guns get 17600 darts! Buy 89 guns get 17800 darts! Buy 90 guns get 18000 darts! Buy 91 guns get 18200 darts! Buy 92 guns get 18400 darts! Buy 93 guns get 18600 darts! Buy 94 guns get 18800 darts! Buy 95 guns get 19000 darts! Buy 96 guns get 19200 darts! Buy 97 guns get 19400 darts! Buy 98 guns get 19600 darts! Buy 99 guns get 19800 darts! Buy 100 guns get 20000 darts! Buy 101 guns get 20200 darts! Buy 102 guns get 20400 darts! Buy 103 guns get 20600 darts! Buy 104 guns get 20800 darts! Buy 105 guns get 21000 darts! Buy 106 guns get 21200 darts! Buy 107 guns get 21400 darts! Buy 108 guns get 21600 darts! Buy 109 guns get 21800 darts! Buy 110 guns get 22000 darts! Buy 111 guns get 22200 darts! Buy 112 guns get 22400 darts! Buy 113 guns get 22600 darts! Buy 114 guns get 22800 darts! Buy 115 guns get 23000 darts! Buy 116 guns get 23200 darts! Buy 117 guns get 23400 darts! Buy 118 guns get 23600 darts! Buy 119 guns get 23800 darts! Buy 120 guns get 24000 darts! Buy 121 guns get 24200 darts! Buy 122 guns get 24400 darts! Buy 123 guns get 24600 darts! Buy 124 guns get 24800 darts! Buy 125 guns get 25000 darts! Buy 126 guns get 25200 darts! Buy 127 guns get 25400 darts! Buy 128 guns get 25600 darts! Buy 129 guns get 25800 darts! Buy 130 guns get 26000 darts! Buy 131 guns get 26200 darts! Buy 132 guns get 26400 darts! Buy 133 guns get 26600 darts! Buy 134 guns get 26800 darts! Buy 135 guns get 27000 darts! Buy 136 guns get 27200 darts! Buy 137 guns get 27400 darts! Buy 138 guns get 27600 darts! Buy 139 guns get 27800 darts! Buy 140 guns get 28000 darts! Buy 141 guns get 28200 darts! Buy 142 guns get 28400 darts! Buy 143 guns get 28600 darts! Buy 144 guns get 28800 darts! Buy 145 guns get 29000 darts! Buy 146 guns get 29200 darts! Buy 147 guns get 29400 darts! Buy 148 guns get 29600 darts! Buy 149 guns get 29800 darts! Buy 150 guns get 30000 darts! Buy 151 guns get 30200 darts! Buy 152 guns get 30400 darts! Buy 153 guns get 30600 darts! Buy 154 guns get 30800 darts! Buy 155 guns get 31000 darts! Buy 156 guns get 31200 darts! Buy 157 guns get 31400 darts! Buy 158 guns get 31600 darts! Buy 159 guns get 31800 darts! Buy 160 guns get 32000 darts! Buy 161 guns get 32200 darts! Buy 162 guns get 32400 darts! Buy 163 guns get 32600 darts! Buy 164 guns get 32800 darts! Buy 165 guns get 33000 darts! Buy 166 guns get 33200 darts! Buy 167 guns get 33400 darts! Buy 168 guns get 33600 darts! Buy 169 guns get 33800 darts! Buy 170 guns get 34000 darts! Buy 171 guns get 34200 darts! Buy 172 guns get 34400 darts! Buy 173 guns get 34600 darts! Buy 174 guns get 34800 darts! Buy 175 guns get 35000 darts! Buy 176 guns get 35200 darts! Buy 177 guns get 35400 darts! Buy 178 guns get 35600 darts! Buy 179 guns get 35800 darts! Buy 180 guns get 36000 darts! Buy 181 guns get 36200 darts! Buy 182 guns get 36400 darts! Buy 183 guns get 36600 darts! Buy 184 guns get 36800 darts! Buy 185 guns get 37000 darts! Buy 186 guns get 37200 darts! Buy 187 guns get 37400 darts! Buy 188 guns get 37600 darts! Buy 189 guns get 37800 darts! Buy 190 guns get 38000 darts! Buy 191 guns get 38200 darts! Buy 192 guns get 38400 darts! Buy 193 guns get 38600 darts! Buy 194 guns get 38800 darts! Buy 195 guns get 39000 darts! Buy 196 guns get 39200 darts! Buy 197 guns get 39400 darts! Buy 198 guns get 39600 darts! Buy 199 guns get 39800 darts! Buy 200 guns get 40000 darts! Buy 201 guns get 40200 darts! Buy 202 guns get 40400 darts! Buy 203 guns get 40600 darts! Buy 204 guns get 40800 darts! Buy 205 guns get 41000 darts! Buy 206 guns get 41200 darts! Buy 207 guns get 41400 darts! Buy 208 guns get 41600 darts! Buy 209 guns get 41800 darts! Buy 210 guns get 42000 darts! Buy 211 guns get 42200 darts! Buy 212 guns get 42400 darts! Buy 213 guns get 42600 darts! Buy 214 guns get 42800 darts! Buy 215 guns get 43000 darts! Buy 216 guns get 43200 darts! Buy 217 guns get 43400 darts! Buy 218 guns get 43600 darts! Buy 219 guns get 43800 darts! Buy 220 guns get 44000 darts! Buy 221 guns get 44200 darts! Buy 222 guns get 44400 darts! Buy 223 guns get 44600 darts! Buy 224 guns get 44800 darts! Buy 225 guns get 45000 darts! Buy 226 guns get 45200 darts! Buy 227 guns get 45400 darts! Buy 228 guns get 45600 darts! Buy 229 guns get 45800 darts! Buy 230 guns get 46000 darts! Buy 231 guns get 46200 darts! Buy 232 guns get 46400 darts! Buy 233 guns get 46600 darts! Buy 234 guns get 46800 darts! Buy 235 guns get 47000 darts! Buy 236 guns get 47200 darts! Buy 237 guns get 47400 darts! Buy 238 guns get 47600 darts! Buy 239 guns get 47800 darts! Buy 240 guns get 48000 darts! Buy 241 guns get 48200 darts! Buy 242 guns get 48400 darts! Buy 243 guns get 48600 darts! Buy 244 guns get 48800 darts! Buy 245 guns get 49000 darts! Buy 246 guns get 49200 darts! Buy 247 guns get 49400 darts! Buy 248 guns get 49600 darts! Buy 249 guns get 49800 darts! Buy 250 guns get 50000 darts! Buy 251 guns get 50200 darts! Buy 252 guns get 50400 darts! Buy 253 guns get 50600 darts! Buy 254 guns get 50800 darts! Buy 255 guns get 51000 darts! Buy 256 guns get 51200 darts! Buy 257 guns get 51400 darts! Buy 258 guns get 51600 darts! Buy 259 guns get 51800 darts! Buy 260 guns get 52000 darts! Buy 261 guns get 52200 darts! Buy 262 guns get 52400 darts! Buy 263 guns get 52600 darts! Buy 264 guns get 52800 darts! Buy 265 guns get 53000 darts! Buy 266 guns get 53200 darts! Buy 267 guns get 53400 darts! Buy 268 guns get 53600 darts! Buy 269 guns get 53800 darts! Buy 270 guns get 54000 darts! Buy 271 guns get 54200 darts! Buy 272 guns get 54400 darts! Buy 273 guns get 54600 darts! Buy 274 guns get 54800 darts! Buy 275 guns get 55000 darts! Buy 276 guns get 55200 darts! Buy 277 guns get 55400 darts! Buy 278 guns get 55600 darts! Buy 279 guns get 55800 darts! Buy 280 guns get 56000 darts! Buy 281 guns get 56200 darts! Buy 282 guns get 56400 darts! Buy 283 guns get 56600 darts! Buy 284 guns get 56800 darts! Buy 285 guns get 57000 darts! Buy 286 guns get 57200 darts! Buy 287 guns get 57400 darts! Buy 288 guns get 57600 darts! Buy 289 guns get 57800 darts! Buy 290 guns get 58000 darts! Buy 291 guns get 58200 darts! Buy 292 guns get 58400 darts! Buy 293 guns get 58600 darts! Buy 294 guns get 58800 darts! Buy 295 guns get 59000 darts! Buy 296 guns get 59200 darts! Buy 297 guns get 59400 darts! Buy 298 guns get 59600 darts! Buy 299 guns get 59800 darts! Buy 300 guns get 60000 darts! Buy 301 guns get 60200 darts! Buy 302 guns get 60400 darts! Buy 303 guns get 60600 darts! Buy 304 guns get 60800 darts! Buy 305 guns get 61000 darts! Buy 306 guns get 61200 darts! Buy 307 guns get 61400 darts! Buy 308 guns get 61600 darts! Buy 309 guns get 61800 darts! Buy 310 guns get 62000 darts! Buy 311 guns get 62200 darts! Buy 312 guns get 62400 darts! Buy 313 guns get 62600 darts! Buy 314 guns get 62800 darts! Buy 315 guns get 63000 darts! Buy 316 guns get 63200 darts! Buy 317 guns get 63400 darts! Buy 318 guns get 63600 darts! Buy 319 guns get 63800 darts! Buy 320 guns get 64000 darts! Buy 321 guns get 64200 darts! Buy 322 guns get 64400 darts! Buy 323 guns get 64600 darts! Buy 324 guns get 64800 darts! Buy 325 guns get 65000 darts! Buy 326 guns get 65200 darts! Buy 327 guns get 65400 darts! Buy 328 guns get 65600 darts! Buy 329 guns get 65800 darts! Buy 330 guns get 66000 darts! Buy 331 guns get 66200 darts! Buy 332 guns get 66400 darts! Buy 333 guns get 66600 darts! Buy 334 guns get 66800 darts! Buy 335 guns get 67000 darts! Buy 336 guns get 67200 darts! Buy 337 guns get 67400 darts! Buy 338 guns get 67600 darts! Buy 339 guns get 67800 darts! Buy 340 guns get 68000 darts! Buy 341 guns get 68200 darts! Buy 342 guns get 68400 darts! Buy 343 guns get 68600 darts! Buy 344 guns get 68800 darts! Buy 345 guns get 69000 darts! Buy 346 guns get 69200 darts! Buy 347 guns get 69400 darts! Buy 348 guns get 69600 darts! Buy 349 guns get 69800 darts! Buy 350 guns get 70000 darts! Buy 351 guns get 70200 darts! Buy 352 guns get 70400 darts! Buy 353 guns get 70600 darts! Buy 354 guns get 70800 darts! Buy 355 guns get 71000 darts! Buy 356 guns get 71200 darts! Buy 357 guns get 71400 darts! Buy 358 guns get 71600 darts! Buy 359 guns get 71800 darts! Buy 360 guns get 72000 darts! Buy 361 guns get 72200 darts! Buy 362 guns get 72400 darts! Buy 363 guns get 72600 darts! Buy 364 guns get 72800 darts! Buy 365 guns get 73000 darts! Buy 366 guns get 73200 darts! Buy 367 guns get 73400 darts! Buy 368 guns get 73600 darts! Buy 369 guns get 73800 darts! Buy 370 guns get 74000 darts! Buy 371 guns get 74200 darts! Buy 372 guns get 74400 darts! Buy 373 guns get 74600 darts! Buy 374 guns get 74800 darts! Buy 375 guns get 75000 darts! Buy 376 guns get 75200 darts! Buy 377 guns get 75400 darts! Buy 378 guns get 75600 darts! Buy 379 guns get 75800 darts! Buy 380 guns get 76000 darts! Buy 381 guns get 76200 darts! Buy 382 guns get 76400 darts! Buy 383 guns get 76600 darts! Buy 384 guns get 76800 darts! Buy 385 guns get 77000 darts! Buy 386 guns get 77200 darts! Buy 387 guns get 77400 darts! Buy 388 guns get 77600 darts! Buy 389 guns get 77800 darts! Buy 390 guns get 78000 darts! Buy 391 guns get 78200 darts! Buy 392 guns get 78400 darts! Buy 393 guns get 78600 darts! Buy 394 guns get 78800 darts! Buy 395 guns get 79000 darts! Buy 396 guns get 79200 darts! Buy 397 guns get 79400 darts! Buy 398 guns get 79600 darts! Buy 399 guns get 79800 darts! Buy 400 guns get 80000 darts! Buy 401 guns get 80200 darts! Buy 402 guns get 80400 darts! Buy 403 guns get 80600 darts! Buy 404 guns get 80800 darts! Buy 405 guns get 81000 darts! Buy 406 guns get 81200 darts! Buy 407 guns get 81400 darts! Buy 408 guns get 81600 darts! Buy 409 guns get 81800 darts! Buy 410 guns get 82000 darts! Buy 411 guns get 82200 darts! Buy 412 guns get 82400 darts! Buy 413 guns get 82600 darts! Buy 414 guns get 82800 darts! Buy 415 guns get 83000 darts! Buy 416 guns get 83200 darts! Buy 417 guns get 83400 darts! Buy 418 guns get 83600 darts! Buy 419 guns get 83800 darts! Buy 420 guns get 84000 darts! Buy 421 guns get 84200 darts! Buy 422 guns get 84400 darts! Buy 423 guns get 84600 darts! Buy 424 guns get 84800 darts! Buy 425 guns get 85000 darts! Buy 426 guns get 85200 darts! Buy 427 guns get 85400 darts! Buy 428 guns get 85600 darts! Buy 429 guns get 85800 darts! Buy 430 guns get 86000 darts! Buy 431 guns get 86200 darts! Buy 432 guns get 86400 darts! Buy 433 guns get 86600 darts! Buy 434 guns get 86800 darts! Buy 435 guns get 87000 darts! Buy 436 guns get 87200 darts! Buy 437 guns get 87400 darts! Buy 438 guns get 87600 darts! Buy 439 guns get 87800 darts! Buy 440 guns get 88000 darts! Buy 441 guns get 88200 darts! Buy 442 guns get 88400 darts! Buy 443 guns get 88600 darts! Buy 444 guns get 88800 darts! Buy 445 guns get 89000 darts! Buy 446 guns get 89200 darts! Buy 447 guns get 89400 darts! Buy 448 guns get 89600 darts! Buy 449 guns get 89800 darts! Buy 450 guns get 90000 darts! Buy 451 guns get 90200 darts! Buy 452 guns get 90400 darts! Buy 453 guns get 90600 darts! Buy 454 guns get 90800 darts! Buy 455 guns get 91000 darts! Buy 456 guns get 91200 darts! Buy 457 guns get 91400 darts! Buy 458 guns get 91600 darts! Buy 459 guns get 91800 darts! Buy 460 guns get 92000 darts! Buy 461 guns get 92200 darts! Buy 462 guns get 92400 darts! Buy 463 guns get 92600 darts! Buy 464 guns get 92800 darts! Buy 465 guns get 93000 darts! Buy 466 guns get 93200 darts! Buy 467 guns get 93400 darts! Buy 468 guns get 93600 darts! Buy 469 guns get 93800 darts! Buy 470 guns get 94000 darts! Buy 471 guns get 94200 darts! Buy 472 guns get 94400 darts! Buy 473 guns get 94600 darts! Buy 474 guns get 94800 darts! Buy 475 guns get 95000 darts! Buy 476 guns get 95200 darts! Buy 477 guns get 95400 darts! Buy 478 guns get 95600 darts! Buy 479 guns get 95800 darts! Buy 480 guns get 96000 darts! Buy 481 guns get 96200 darts! Buy 482 guns get 96400 darts! Buy 483 guns get 96600 darts! Buy 484 guns get 96800 darts! Buy 485 guns get 97000 darts! Buy 486 guns get 97200 darts! Buy 487 guns get 97400 darts! Buy 488 guns get 97600 darts! Buy 489 guns get 97800 darts! Buy 490 guns get 98000 darts! Buy 491 guns get 98200 darts! Buy 492 guns get 98400 darts! Buy 493 guns get 98600 darts! Buy 494 guns get 98800 darts! Buy 495 guns get 99000 darts! Buy 496 guns get 99200 darts! Buy 497 guns get 99400 darts! Buy 498 guns get 99600 darts! Buy 499 guns get 99800 darts! Buy 500 guns get 100000 darts! Buy 501 guns get 100200 darts! Buy 502 guns get 100400 darts! Buy 503 guns get 100600 darts! Buy 504 guns get 100800 darts! Buy 505 guns get 101000 darts! Buy 506 guns get 101200 darts! Buy 507 guns get 101400 darts! Buy 508 guns get 101600 darts! Buy 509 guns get 101800 darts! Buy 510 guns get 102000 darts! Buy 511 guns get 102200 darts! Buy 512 guns get 102400 darts! Buy 513 guns get 102600 darts! Buy 514 guns get 102800 darts! Buy 515 guns get 103000 darts! Buy 516 guns get 103200 darts! Buy 517 guns get 103400 darts! Buy 518 guns get 103600 darts! Buy 519 guns get 103800 darts! Buy 520 guns get 104000 darts! Buy 521 guns get 104200 darts! Buy 522 guns get 104400 darts! Buy 523 guns get 104600 darts! Buy 524 guns get 104800 darts! Buy 525 guns get 105000 darts! Buy 526 guns get 105200 darts! Buy 527 guns get 105400 darts! Buy 528 guns get 105600 darts! Buy 529 guns

ASG 1987 Giveaway

Fill out the accompanying coupon, and include payment with subscription orders or current subscription extensions. All ASG 1987 Giveaway entries should be printed or typewritten on the official coupon, or a reasonable facsimile from this magazine. It is not necessary to clip the official coupon from this magazine. A facsimile entry is acceptable and valid, as long as it contains information required with the subscription or extension order/entry form. The ASG Giveaway is open to any resident of the United States. Federal law requires that only U.S. citizens are eligible to receive a firearm prize. The prize winner must not be legally restricted from receiving or possessing a firearm. This contest offer is void where prohibited by law. Employees of McMullen Publishing and its subsidiaries or subordinate agencies, and members of their immediate families, are not eligible to enter the contest. There is a **LIMIT OF ONE ENTRY PER PERSON** for this contest. Duplicate and/or multiple-copy entries, when detected, will be disqualified and discarded. The prize winner will be selected in a random drawing of the coupons submitted for this contest. The drawing will be conducted at 2 p.m. Sept. 15, 1987 (Daylight Savings Time). Entries received after Sept. 14, 1987 at 4 p.m. DST will be invalidated and discarded, though subscription orders will be honored by McMullen Publishing. The prize winner will be notified by telephone and/or mail within one week of the drawing. This firearm prize winner will be required to arrange with a local federally licensed firearms dealer to accept delivery of the prize. The winner will be required by the firearms dealer accepting the prize to fill out all necessary federal, state and/or local firearm purchase and/or transfer forms. To receive this prize, the winner must meet **ALL** federal, state and/or local requirements for firearms ownership. The winner must be 18 years of age or older, **NO EXCEPTIONS**.

FOURTH PRIZE: Medical Specialist, U.S. Army Field Manual 8-230. For use in training the Medical Specialist in field medical activities, patient care procedures and general nursing care. Applicable to peacetime, nuclear and non-nuclear war. Provided by Sierra Supply. See book review this issue.



Win these four great prizes in American Survival Guide's 1987 Giveaway

McMullen Publishing, Inc., accepts no responsibility, and refused any and all liability for mishap and/or injury that may arise or result from any use whatsoever of this

prize after it is awarded to the winner and transferred to the winner from McMullen Publishing, Inc., or other firm, company or contest donor agency.

LIMIT:

Enter me in ASG's 1987 Giveaway and record my new subscription at \$21.95 for 12 issues. Payment is enclosed.

ONE

Enter me in ASG's 1987 Giveaway and extend my current subscription at \$21.95 for 12 additional issues. Payment is enclosed.

ENTRY

NAME _____

PER

ADDRESS _____

CITY _____

STATE _____

ZIP _____

PERSON

AGE (Optional) _____

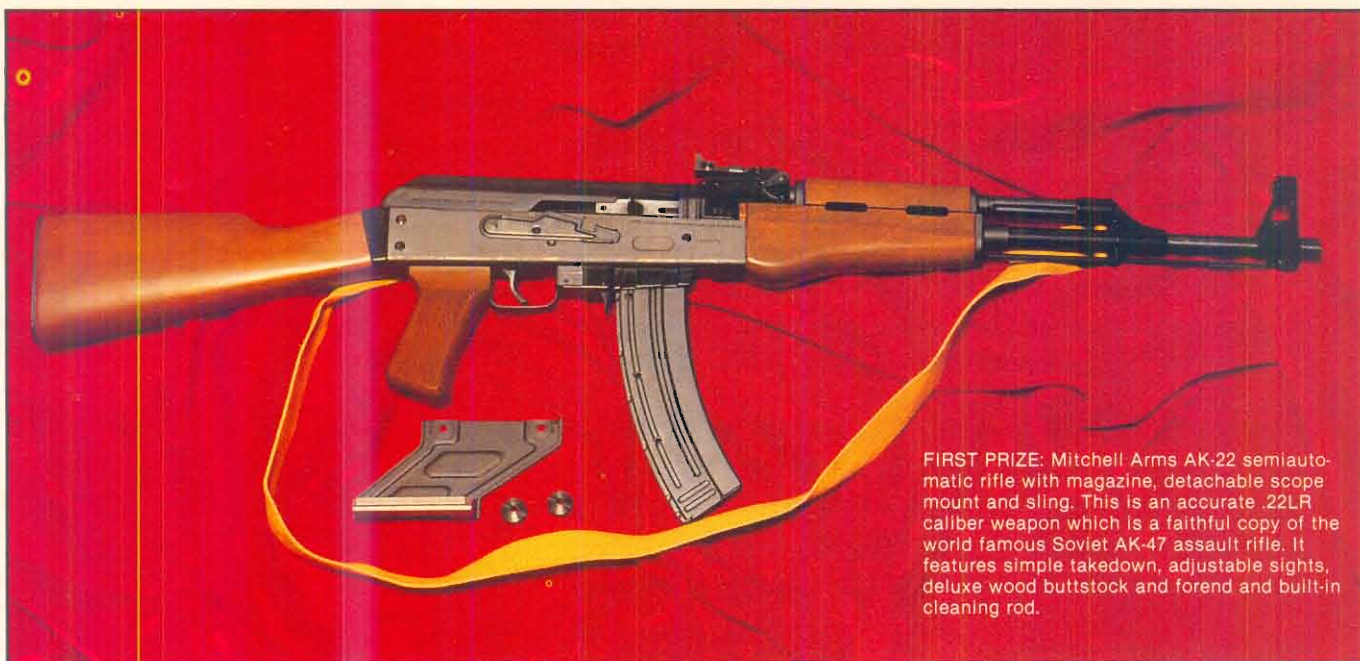
OCCUPATION (Optional) _____

TELEPHONE NUMBER (Optional) _____

The recipient of this prize must be a citizen of the United States and must be 18 years or older. The recipient must be legally able to receive and possess this firearm. Proof of residency and age may be required.

Include the words: ASG 1987 Giveaway on your entry envelope, please!

Mail this coupon to: **American Survival Guide, 1987 Giveaway**
2145 West La Palma Ave.,
Anaheim, CA 92821



FIRST PRIZE: Mitchell Arms AK-22 semiautomatic rifle with magazine, detachable scope mount and sling. This is an accurate .22LR caliber weapon which is a faithful copy of the world famous Soviet AK-47 assault rifle. It features simple takedown, adjustable sights, deluxe wood buttstock and forend and built-in cleaning rod.



SECOND PRIZE: RWS Model 52 precision air rifle in .177 caliber from Dynamit Nobel of America Inc. Designed for pest control and silhouette shooting, the RWS Model 52 has a muzzle velocity of more than 1,100 fps. It has a deluxe wood stock and fixed barrel. Single-stroke cocking with side lever. Overall length is 43 inches. Barrel length is 17 inches. Weight is 8½ pounds. Included with this prize are the tins of RWS Superpoint, Super-H-Point, Superdome and Hobby pellets shown here.



THIRD PRIZE: Victorinox Swiss-Champ Swiss Army officers knife from the Cutlery Shoppe. Starting with all the implements on the original Champion Swiss Army knife, the SwissCamp also has a wood chisel, ballpoint pen, pliers, wire cutter and mini screwdriver in the corkscrew—29 tools in all.

DIESEL GENERATORS

OWN YOUR OWN ELECTRIC COMPANY!

Give your family a dependable, economical power source for daily or emergency use! Order your diesel-powered electric company direct from the importer today and save! 30-day money-back guarantee!

12,000 WATT MODEL

with electric starter

just **\$2995***
(\$9000 retail value)

Many other models to choose from

ORDER NOW! (619) 464-6030

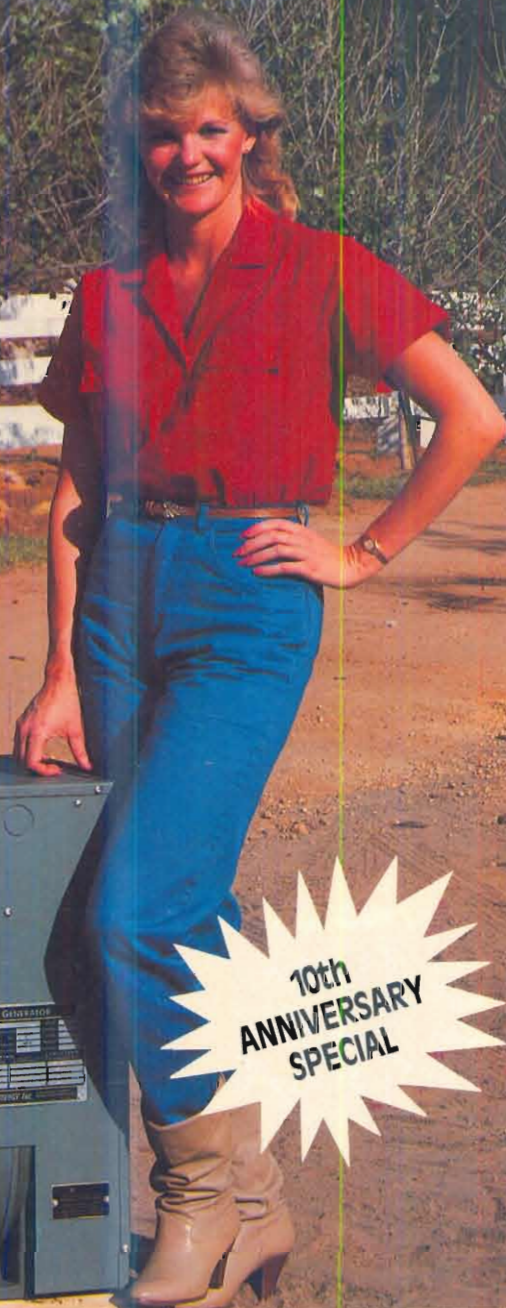
FREE color literature!



China Diesel Imports,
15749 LYONS VALLEY ROAD, JAMUL, CA 92035

WORLD'S LARGEST DIRECT SUPPLIER OF DIESEL-POWERED GENERATORS

*Prices and specifications subject to change. Prices do not include shipping. Calif. residents add 6% sales tax.



**10th
ANNIVERSARY
SPECIAL**

CALL NOW OR SEND COUPON TODAY FOR COMPLETE INFORMATION.

Name _____

Address _____

City _____

State _____

Zip _____

Phone (____) _____

China Diesel Imports, 15749 Lyons Valley Road, Jamul, CA 92035.

SG